ENGINEERING NEWS-RECORD

SEP 2 19

ontractors' pack trains slog through mud and drab forests, carrying supplies on road to Alaska

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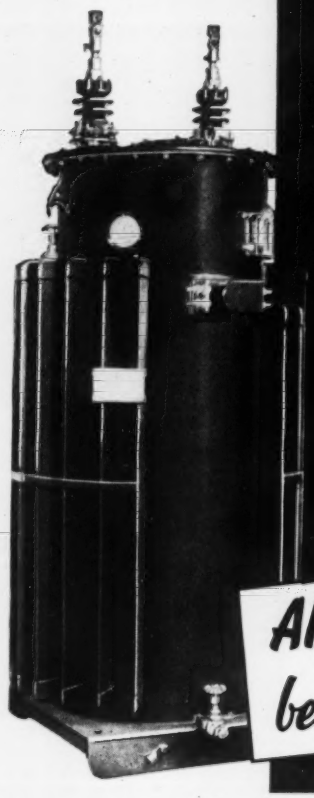

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GENERAL ELECTRIC

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The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • SEPTEMBER 17, 1942 • VOLUME 129 • NUMBER 12

WPB orders unit stress of 24,000 lb. for steel design

New specifications apply to all steel buildings constructed, financed or approved by federal agencies. Designers to certify compliance, widest use of continuity, welding

National emergency specifications for the design, fabrication and erection of structural steel for buildings were established Sept. 10 by the War Production Board. Outstanding feature of the new specifications is a 24,000 lb. per sq. in. basic unit stress, as compared with a previous maximum of 20,000, but equally significant are several provisions of the WPB directive that put the specifications into effect.

In the first place, the specifications are made mandatory not only for the Army, Navy, Maritime Commission, RFC, National Housing Authority and other federal agencies, but for the WPB as well. WPB is not a designing agency, but through its L-41 order it controls, by its power of approval or disapproval, all private or public construction over certain minimum amounts ($1,000 for commercial buildings, highways and utilities, and $5,000 for industrial buildings). Thus virtually every steel building job in the country is subject to the new specification requirements.

A second provision of the directive requires the person in responsible charge of the design of a steel building to file a certificate to the effect that the specifications have been complied with, and what is most notable, attesting to the fact that "the building has been designed to secure the greatest savings of steel practical through continuity in design and welded fabrication." It is estimated by WPB that a saving of about 10 percent of the weight of structural steel entering into building construction can be made by using the increased unit stresses in combination with these special design requirements.

The new specifications become mandatory in 60 days, or on Nov. 9, but all agencies are empowered to put them into immediate effect wherever possible. Where contracts already have been placed or will be placed before the Nov. 9 deadline, the directive states that they should be reviewed by the sponsoring agencies promptly, and changes made in accordance with the emergency specifications, unless such changes will result in a substantial delay in the war effort.

As to the specifications themselves, they differ from any heretofore in existence in that they cover all types of steel fabrication—riveted, welded and bolted. In effect, this significant result was accomplished by combining the A.I.S.C. structural steel specification (as revised July, 1941) and the A.I.S.C. specification on structural welding (issued January, 1942), which corresponds in all respects with the American Welding Society Building Code. In addition to raising the unit tensile stress from 20,000 to 24,000 lb. per sq. in., the new specifications also provide for a slightly increased compressive stress on the extreme fibers of rolled sections and girders by a minor change in the formula applying thereto. In all other respects the emergency specifications follow the standard specifications.

Issuance of the specifications, which are being printed and distributed by the American Institute of Steel Construction, 101 Park Ave., New York, N. Y. (price 25c), represents nine months' effort by a number of engineers and government officials. They were developed under the direction of the Civil Engineering Section of the specifications branch of the WPB Conservation Division, which began preliminary discussions as long ago as December, 1941. On March 4, 1942, American Standards Association committee A-57 was asked to consider the question and make recommendations. The latter were embodied in a revision of the A.I.S.C. specifications made by F. H. Frankland, director of engineering of the A.I.S.C., which was then offered for critical review to all the federal agencies affected. C. L. Warwick is chief of the WPB specifications branch, and C. A. Willson is head of the civil engineering section. In addition to Mr. Frankland, H. L. Whittemore, of the National Bureau of Standards, was active in the work.

Philadelphia opens new river drive section

A new section of Philadelphia's West River Drive, extending along the Schuylkill River from Spring Garden St. to Arch St., recently was opened to traffic.

This half mile stretch of road, shown above, was built with WPA labor as the first phase of a program designed ultimately to provide a new north and south traffic artery through the city. The route also provides a new access to the 30th St. railroad station.

The city's share of the cost was $85,000, plus the services of its engineering and designing departments. WPA expenditures were about $325,000.

O'Connor named head of new army command

Col. James A. O'Connor, Corps of Engineers, U. S. Army, who has been in charge of construction of the southern section of the Alaska Highway during recent months has just been named head of the newly created Northwest Service Command with headquarters at Whitehorse, Yukon Territory, Canada. In his new position Colonel O'Connor will have charge of all U. S. Army activities in Canadian territory traversed by the Alaska Highway (see p. 392 this issue), all operating, supply and construction activities on the White Pass and Yukon railways, and the base installations at Fairbanks and Skagway. The primary mission of the new command is to direct and coordinate construction, maintenance and supply activities over highways, railways, inland water routes, air routes and pipe lines serving the United States forces in the area, except for those supplies peculiar to the Army Air Forces.

Colonel O'Connor was born in Bay City, Mich., July 19, 1885, graduated from the U. S. Military Academy and was commissioned a second lieutenant of Engineers in June, 1907. Before World War I he saw service in Cuba and Hawaii. In 1918 he went to France in command of the 114th Engineers, later taking command of the 303rd Engineers. He is a graduate of the Engineer School, the Command and General Staff School and the Army War College. He served as commandant of the Engineer School, Fort Belvoir, Va., from August 1939 to June, 1940.

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Reorganization need seen for housing expansion

Nothing short of a drastic reorganization of the housebuilding industry and a reorientation of its market viewpoint must be faced in order to expand the place of housing in our economy, is the conclusion reached by the National Resources Planning Board.

Outlining its findings in a report entitled "The Role of the Housebuilding Industry," the Board states these possibilities for immediate action:

1. Government aid in removing restraints within the housebuilding industry through modification of federal antitrust and racketeering laws, and strengthening the means for law enforcement.

2. Preparation by the federal government of model building codes.

3. Review of existing methods of corporate taxation with a view to providing, if possible, incentives to capital investment and expansion in new enterprises such as housebuilding.

4. Support of the housing market as may be needed by the continued purchase by local housing authorities, under a coordinated federal program, of dwellings for the low-income groups.

5. Continuance of existing aids to mortgage investment supplemented with measures designed to encourage equity investment by financial institutions in rental housing.

6. Improvement for facilities for financing housing in rural areas through greater allowances for home values in Farm Credit loans, and through the greater development of cooperative credit institutions for farm house construction and repairs along lines initiated by the Rural Electrification Administration.

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Pennsylvania Railroad extends Baltimore track

To handle a large increase in freight and passenger traffic, the Pennsylvania Railroad has begun construction of a $1,500,000 improvement to its main tracks between North Point, just outside Baltimore, Md., and Bengies—a distance of 6½ miles.

The improvement will include construction of two additional main tracks, according to R. C. Morse, vice president of the railroad company.

Mr. Morse said that during an average 24 hours, a train passes over the existing two-track section in each direction virtually every 15 minutes. On a recent peak movement day, when nearly 115,000 passengers were carried over the division, 68 passenger trains and 25 freight trains were operated northbound, and 61 passenger and 28 freight trains southbound.

The improvement will give a continuous four-track stretch of railroad between the Gunpowder River and Baltimore.

Construction of the new trackage will require 93,300 cu.yd. of grading, 39,000 lin.ft. of ditching.

Urge wider use of brick and clay products

Producers of brick and other clay products were urged last week by the War Production Board to step production to meet an anticipated increased demand for these materials to replace lumber in both temporary and permanent structures.

"Because of lend-lease requirements and heavy construction programs of the armed forces and the National Housing Agency," the board said, "it is estimated that the available supply of lumber will fall 6,000,000 board feet short of meeting this year's estimated 38,000,000,000 board feet requirements.

"It is believed that at least 2,000,000,000 board feet of lumber could be saved by increased utilization of brick and tile, and an additional 100,000,000 to 150,000,000 feet saved by use of gypsum board. Adequate brick, tile and gypsum board for such uses can be produced by expanding the present output of the industry, which is now working at only 30 percent of capacity."

John L. Haynes, chief of the WPB Building Materials Branch, pointed out that while the present inventory of brick and tile products is above demand, the WPB expects more and more such products to be used during the coming months. "Many types of buildings of temporary character can be built using 'permanent' fireproof materials such as brick and tile as readily as they can be built with 'temporary' materials," Mr. Haynes said. "It is merely a matter of using lime mortar instead of cement mortar to facilitate later dismantling.

"In the gypsum field there is also a surplus production available, and this makes it possible for builders to use non-critical gypsum board in lieu of critical material.

Highway engineers needed for Army supply

Civil engineers experienced in highway or airport construction or who have knowledge of handling earth-moving equipment are needed to fill officer vacancies in the Services of Supply, U. S. Army. Commissions as second lieutenants are available for men between the ages of 30 and 34 years with five years experience in such work, and commissions of first lieutenant for men between the ages of 30 and 40. Interested engineers should file their names and qualifications with George T. Seabury, Secretary, American Society of Civil Engineers, 33 West 39th St., New York City.

ENGINEERING NEWS-RECORD. Published every Thursday. Vol. 129, No. 12. Price 25c per copy. Allow at least ten days for change of address. All communications about subscriptions should be addressed to the Director of Circulation, 330 W. 42nd Street, New York, N. Y. Subscriptions, United States, U. S. Possessions and Latin American Republics $5.00 for one year, $8.00 for two years, $10.00 for three years. Canada $5.50 for one year, $9.00 for two years, $11.00 for three years. Great Britain and British Possessions 54 shillings for one year, 108 shillings for three years. All other countries $9.00 for one year, $18.00 for three years. Entered as second-class matter October 29, 1936, at the Post Office at Albany, N. Y., under the Act of March 3, 1879. Printed in U. S. A. Cable Address "McGrawhill New York." Member A.B.P. Member A.B.C. Copyright 1942 by McGraw-Hill Publishing Company, Inc. James H. McGraw, Founder and Honorary Chairman; James H. McGraw, Jr., President; Howard Ehrlich, Executive Vice President; Mason Britton, Vice-President; B. R. Putnam, Treasurer; Joseph A. Gerardi, Secretary; J. E. Blackburn, Jr., Circulation Manager. Publication office: 99-129 North Broadway, Albany, N. Y. **Editorial and Executive Offices: 330 West 42nd St., New York.** Branch offices: 520 N. Michigan Ave., Chicago; 68 Post St., San Francisco; Aldwych House, Aldwych, London, W.C. 2, England; Washington; Philadelphia; Cleveland; Detroit; St. Louis; Los Angeles; Boston; Atlanta, Ga.

Air raid protection code prepared for federal buildings released to industry

FWA's code for building protection sets three "stages" of protective requirements, outlines precautions necessary for plants, buildings

Engineers responsible for protection of buildings from air raids will be able, within a week or two, to obtain copies of the official code governing protection of federal buildings from aerial attack, drawn up by the Federal Works Agency.

The code provides for three stages of protection—A, B, and C. The stage used for a particular building depends upon the importance of the work carried on in it, and the degree of bombing hazard where it is located. Thus, the code recommends that protection of buildings housing direct war work be carried to Stage B everywhere and to Stage C in areas that are considered to be exposed to frequent or to steady bombardment. Where the work contributes importantly but indirectly to the war, protection should be to Stage A in low-hazard areas, B where bombing is likely to be frequent, C where it might be heavy and steady. Work with only incidental relationship to the war should be protected to Stage A in low-hazard areas, B elsewhere. Non-war activity should be protected to Stage B only in extreme hazard areas.

Protection at Stage A is limited to surveying the building and drawing up plans for more elaborate protection when this becomes necessary, training of air raid warden and similar precautionary crews, provision for blackout of areas where night work must be done, designation of the safest portions of the building as shelter areas, and provision of standby fire, air raid alarm and phone service.

At Stage B, plans should be laid for future provision of new air raid shelters. Blast protection should be provided for communication centers and guard rooms. Entrances to the shelter areas should be protected; the roof of such areas should be strengthened; and protection should be provided against flying glass.

Where the shelter area is a long corridor, it should be subdivided by blast-proof walls at such intervals that not more than 100 people will be stationed between walls. Standby power should be provided for lighting and pumps, and provision should be made for emergency water supply and ventilation.

The preferred blast protection is a 12-in. reinforced concrete wall or 13-in. reinforced brickwork. Also acceptable is 30 in. of sandbags, 24 in. of sand or gravel between wood or iron sheathing, or 15 in. of mass concrete.

At Stage C, new air raid shelters should be built if feasible. They may be placed in or outside of buildings, should ordinarily be above ground. Recommended design is a reinforced concrete, rigid-frame box, 8 ft. high and not more than 10 ft. wide or 35 ft. long. Floor and roof should be 6 in. thick, walls 12 in. The roof should be designed to carry the anticipated debris load. Transverse interior walls should be provided at 13-ft. intervals, permitting design of the roof as a two-way slab.

Other precautions to be taken at Stage C include provision for complete, long-continued blackout. Blast protection should be provided for all first and second story windows. Emergency sanitation — preferably chemical closets — should be provided in shelter areas. Large work areas should be subdivided by blast-proof walls into areas of not more than 5,000 sq. ft.

The code also contains an appendix of suggestions for carrying out recommendations. Along with a similar code of methods for protection from subversive activity, it will be available from the Superintendent of Documents, Washington, as soon as printing is completed. Price has not yet been determined.

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Seattle rejects bids for raising Ross Dam

The Seattle board of public works, at the request of City Light Superintendent E. R. Hoffman, has rejected bids received Aug. 6 for construction of the second step of Ross Dam on the city's Skagit hydro-electric project.

Following the opening of bids (*ENR* Aug. 27, p. 272), the city had requested federal funds to aid on construction, cost of which exceeded original estimates. However, failing to receive assurance of federal aid, the board decided to reject the proposals. It said that if federal funds should be secured, new bids will be called.

The General Construction Co. of Seattle, Morrison-Knudsen Co., of Boise, Idaho, and J. F. Shea Co., Inc., Portland, Ore., combined to bid $6,146,214 for the construction work, and the Superior Portland Cement Co. of Seattle asked $977,676 for the cement.

U. S. Coast Guard photo

Highway bridge completed at Chester, Ill.

Completed recently and now in service is this steel truss highway bridge over the Mississippi River at Chester, Ill., connecting Illinois Route 3 and Missouri Highway 51.

Construction started in 1940, financed by the City of Chester (ENR, March 19, 1942, p. 446).

Over the main channel the bridge is a 1,340 ft. continuous through truss unit, of two equal spans. Trusses are 28½ ft., c. to c. and are 100 ft. deep over the mid-river pier. The central unit is flanked at each end by a 500 ft. continuous deck truss, while the Illinois approach is one 60 ft. I-beam span and the Missouri approach seven 60 ft. spans of similar construction. Overall length is 2,826 ft., and a clearance of 107 ft. is provided at extreme low water.

The mid-river pier and the Missouri pier supporting the main trusses were sunk with pneumatic caissons and built on rock 100 and 110 ft., respectively, below low water. Main-span erection began at the mid-river pier, and was carried out with a derrick barge and two derricks mounted on the bridge's floor system proceeding in opposite directions.

The bridge provides a 22 ft. roadway and two sidewalks.

Massman Construction Co. of Kansas City was contractor for the foundation and superstructure work, and Sverdrup and Parcel, of St. Louis, were designing and consulting engineers.

Bulldozers follow the gangs doing the clearing to remove the topsoil and do preliminary grading.

Building the Alaska Highway

Construction work on the pioneer road being built by Army engineers to connect the road system of northwestern Canada with the road system of Alaska (*ENR* April 2, p. 515) has progressed at a rate that makes it now probable that the road will be open to traffic for its entire length of about 1,670 miles by December of this year. Work on the road was begun late last winter when engineer troops and construction equipment were taken in over winter trails to Fort Nelson before the spring breakup. Other troops began working out of Dawson Creek, the railhead in British Columbia from which the road starts, and from Whitehorse in Yukon Territory.

Contractors' camps are located on sloping ground to provide adequate drainage. The thick poplar growth is left standing close to the camp to give better protection against winter storms.

The road now being built by the Corps of Engineers is a pioneer road for a permanent highway to be built by the Public Roads Administration under an agreement signed with Canada in March (*ENR* March 26, p. 459). Cuts and fills are made wide enough for the permanent road, the grade being given a high crown and surfaced with the best available local material. Bridges and culverts are being built of timber cut in clearing the right-of-way. Pontoon bridges have been used to get the construction forces and their equipment across the larger streams in advance of the construction of fixed bridges, as shown in the accompanying photographs.

Construction of the pioneer road is under the direction of Brig. Gen. C. L. Sturdevant, Assistant Chief of Engineers, with Brig. Gen. Wm. H. Hoge in charge of the northern section of the highway work and Col. James A. O'Connor in charge of the southern section. Last week General Hoge was transferred to other duties and Colonel O'Connor took over the entire charge of the work ahead of the newly created Northwest Service Command.

In his new position, Colonel O'Connor

will be responsible for all activities of the United States Army in the Canadian provinces of British Columbia and Alberta and in the Canadian territories of Yukon and Mackenzie, together with operation, supply and construction activities connected with the White Pass and Yukon railways and the highway from Whitehorse to Fairbanks, Alaska, and base installations in Fairbanks and Skagway, Alaska.

Management contracts for supervision of construction of the permanent highway were let by the Public Roads Administration early in the summer and contractors are understood to be at work at many points, using the pioneer road to bring in equipment and supplies. This work is under the direction of Thomas H. Macdonald, chief of the PRA. Field work is under the direction of L. I. Hewes, chief of the western region for the PRA, and J. S. Bright, district engineer.

Engineer Corps units of building most of the pioneer road, but in order to rush completion, contractors engaged by the Public Roads Administration for work on the permanent road are being given sections of the pioneer road to build to release troops for attack on other parts of the road.

Pontoon bridges are used for major stream crossing during early stages of the work. Subsequently these are replaced by timber bridges, as shown in the photograph at the left.

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Photos by the U. S. Army

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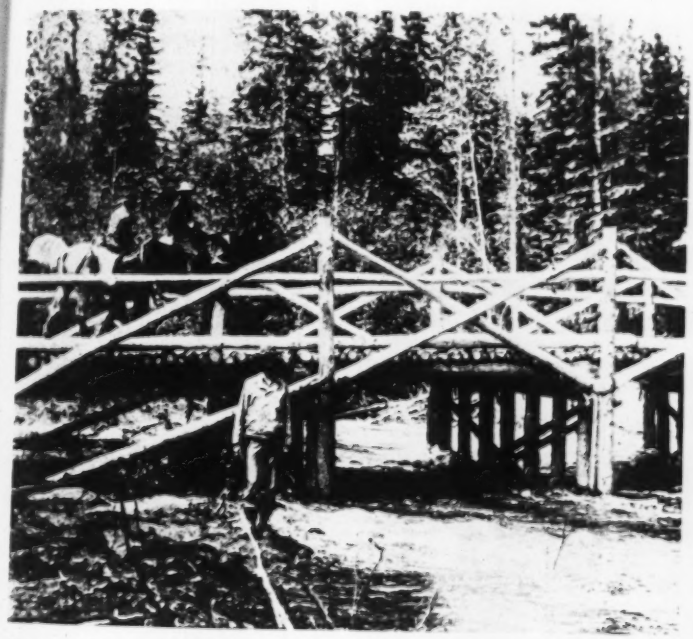

Timber bridges are built of trees cut in clearing the right-of-way, spruce being used for piles, stringers and decking and poplar for braces and guard rails.

The completed road is wide enough for vehicles to pass and is well crowned to provide free drainage.

MEN AND JOBS

Capt. Victor C. Donati, area engineer at Charlotte, N. C., has been transferred to Charleston, S. C. He is replaced at Charlotte by **Capt. Thomas J. Hubbard,** formerly assigned in New Mexico.

L. D. Conkling, head of the Montana State College civil engineering department for 28 years, has resigned to take a post in civil engineering at Kansas State College, Manhattan, Kan.

Capt. W. P. Cornelius, area engineer in charge of construction of a school for the army at Sioux Falls, S. D., has been transferred to Alliance, Neb., to become area engineer for a war project there.

Philip S. Mancini has been appointed public service engineer for Providence, R. I., succeeding the late R. W. Eaton.

S. E. Berkenblit, Gary, Ind., consulting engineer, has temporarily suspended his practice to become chief structural engineer in the design of an armor plate plant at Gary.

Arthur Rynders, an engineer in the construction division of the City of Milwaukee's water department for 18 years, has been commissioned a lieutenant in the Naval Reserves. **Herbert M. Ihling,** a field engineer for the same department, has also been commissioned a lieutenant.

Maj. John C. Pritchard, area engineer in charge of construction at Newport, Ark., has been transferred to Little Rock, Ark., to supervise work at an airfield near there. He is succeeded at Newport by **Maj. Leonard White,** formerly of Little Rock.

W. M. Bostwick, an engineer of Palatka, Fla., has become a second lieutenant in the Army Aviation Engineering Corps.

Executives named to the staff of the Kansas City Regional Public Housing Authority Office include **Charles A. Reed,** construction engineer, **Leroy Riegel,** project planner, and **Percy L. Edwards,** office manager.

Carl B. Wirsching, commissioner of the Board of Public Works of Los Angeles, Cal., has been appointed a major in the Corps of Engineers, and has reported for duty at Camp Claiborne, La.

W. S. Arrasmith, a partner in the engineering firm of Wischmeyer, Arrasmith and Elswick, of Louisville, Ky., has been promoted to the rank of major in the Corps of Engineers.

Lester M. Corey has been appointed Pierce County (Wash.) road engineer, succeeding **E. A. White** who resigned recently to accept a post with the state highway department.

Walter Brooks, of Knoxville, Tenn., head of the East Tennessee division of the state highway department, has been appointed chief engineer of the department.

Robert L. Proctor, former Seattle building superintendent, has become a civilian inspector of construction with the Corps of Engineers in the Seattle district.

Uel Stephens, formerly assistant regional director of Region 4, Federal Works Agency, and later associate regional engineer at the Fort Worth regional office, has now become regional construction adviser in charge of FPHA construction programs in the states of Arkansas, Louisiana, New Mexico, Oklahoma and Texas.

E. T. Martin, formerly county engineer for Ringgold County, Iowa, has been named engineer for Cass County with headquarters at Atlantic, replacing **Gilbert N. McQuern,** who recently entered military service.

James H. Lake, a member of the South Dakota State Highway Commission, has resigned to accept an appointment as city manager of Rapid City, S. D. Mr. Lake was formerly a resident engineer with the highway department, and served twice as state highway engineer.

Capt. Frederick Simeon Jones has been appointed chief engineer of the River St. Lawrence Ship Channel branch of the Dominion Department of Transport, with headquarters at Montreal, Que.

D. W. King, office engineer for the Tacoma, Wash. city engineering department for 12 years, retired Sept. 1.

P. D. Wilson, a construction engineer of Toppenish, Wash., has enlisted in the Navy's construction battalion as a chief boatswain's mate.

J. W. Gentry, chief engineer of the Tennessee Highway Department, has resigned to become county manager-engineer of Hamilton County, Tenn.

C. C. Jordan, sanitary engineer with the Wayne County (N. C.) health department at Goldsboro, has resigned to accept a position with a construction firm at Wilmington, N. C.

Allan J. Anderson, engineer with the North Dakota state highway department for the past 8 years, has received appointment in the Navy as an assistant civil engineer with the rank of lieutenant, (jg.).

Maj. Harvey Eustrom, formerly area engineer at the Iowa ordnance plant, has been appointed area engineer at the Black Hills ordnance depot in South Dakota. He succeeds **Maj. Oliver R. Brown,** who has been called to service with troops.

Wayne N. Volk has been appointed Wisconsin state traffic engineer, to succeed the late Edward J. O'Meara.

Laurence J. Waller, during the past year chief structural engineer on the War Department's office building at Arlington, Va., has announced he will return to private practice. Before starting work on the "Pentagon" building, Mr. Waller had offices at Los Angeles and expects to return to that city.

W. C. Lackey, sanitary engineer with the Martin County, N. C., health department, has been named sanitary engineer for Northampton, Hertford and Gates counties, N. C., with headquarters at Winton. He succeeds **B. R. Bullock** who recently entered army service.

Lieut. W. F. Bowerman has been named officer in charge of the construction of a defense project at Cherry Point, N. C., and public works officer for the section.

William E. Hoy has reported to the Seattle district office, Corps of Engineers, with the rank of major.

Howard O. Paulson, Clinton County, Iowa, engineer, has been appointed drainage engineer of the county.

Harry C. Brockel, acting port director for Milwaukee, Wis., has been granted permission from the Milwaukee Harbor Commission to serve temporarily as secretary for the Great Lakes Harbor Association.

Joseph K. Walkup, of Pittsburgh, Pa., has been appointed head of the general engineering department at Iowa State College, to replace the late Prof. Frank D. Paine, founder of the department.

Cyril B. Raymond has been appointed acting district chief at the Greenfield office of the Massachusetts Department of Public Works, highway division, succeeding **H. D. Phillips,** who retired recently.

H. J. Crudge, building engineer of the Canadian National Railways at Moncton, N. B., has been elected chairman of the Moncton branch, Engineering Institute of Canada.

Mexico puts cement sales on priority basis

Acting to bring order out of the confusion caused by refusal of some cement mills to sell to all comers, President Manuel Avila Camacho of Mexico recently issued a decree ordering the mills to sell their products on an equal basis to specified government departments and civilian users. Previously, the factories had sold exclusively either to civilians or to the government, but not to both, and this system had caused confusion and shortages in some building construction lines.

Government departments that are directly engaged in war work and railroad operation, and such civilian activities as factories that tie in with national defense are on the preferred list for cement supplies.

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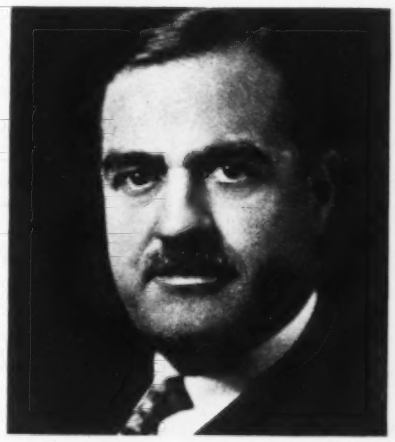
Wilmington, N. C. reports record water use

The City of Wilmington, N. C., site of defense bases and industries, last week reported that it consumed 116,680,000 gallons of water during August, as compared with 96,820,000 gallons in August, 1941.

M'Kean Maffit, city water and sewer department superintendent, said daily average pumpers in August 1942 was 3,764,000 gallons, as compared with 3,123,000 gallons a day during the same month last year.

The city is expanding its water facilities to meet the increase in demand. (*ENR*, Feb. 26, 1942, p. 314).



A. C. Tozzer, construction industry leader, dies

Arthur C. Tozzer, 63, vice-president and director of the Turner Construction Co. and a former president of the Associated General Contractors of America, died Sept. 9 in Scarsdale, N. Y.

During his 37 years with the Turner Company, Mr. Tozzer served in an executive capacity on more than 300 construction projects, including the $28,000,000 U. S. Army Supply Base in Brooklyn, N. Y., built during the first World War.

An authority on labor relations in the building industry, he was chairman of the first meeting held between representatives of business and industry, and of the Building Trades Department of the American Federation of Labor, which attempted to thrash out problems of labor relations at a session held in Washington, D. C., in 1938.

Born at Lynn, Mass., Mr. Tozzer was a graduate of Dartmouth College, holding a degree from Thayer School of Civil Engineering. At his death, he was an overseer of the school.

In 1904-5, Mr. Tozzer was assistant engineer on the East River and Pennsylvania Railroad Tunnels, and was with the Foundation Company of New York before joining the Turner Co. in 1905. He became a vice-president of the Turner Co. in 1919, and a director in 1925.

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Jersey completes water facilities pool plan

A war emergency system designed to protect the purity of water supplies and assure their continued delivery was completed recently for all parts of New Jersey at a conference held in Trenton.

The system, entailing state-wide coordination of public water supply facilities, in which municipalties would extend mutual aid in the event of emergency, is controlled by State Water Coordinator Howard T. Critchlow, who is chief engineer of the State Water Policy Commission, and his associate coordinator, H. P. Croft, of the State Department of Health.

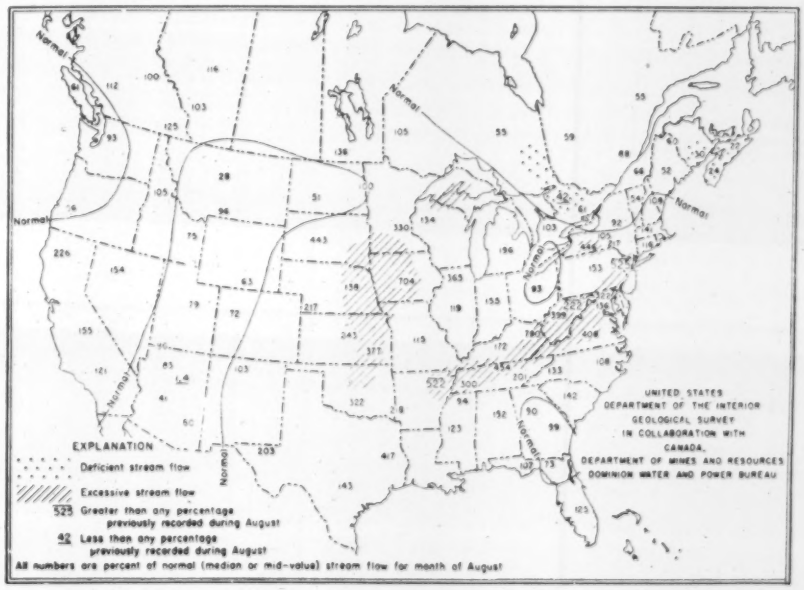
Outlined as additional purposes of the emergency set-up are provision of repairs and replacements for plant structures and systems in the event of sabotage or bombing, transferring materials, supplies and personnel among owners and operators of both public and private water plants, and obtaining data to aid in sterilization of replaced water mains and emergency supplies. The state has been divided into seven districts, each of which will have a control center.

Water conditions continue favorable in most of U. S. and Canada. Floods noted.

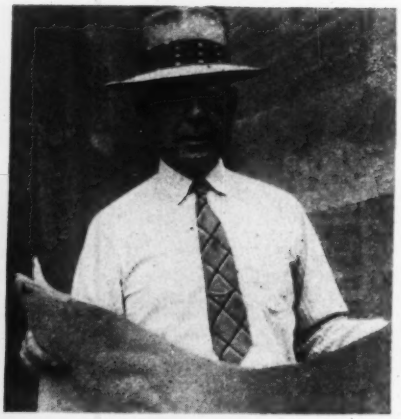
Continued improvement in water storage and groundwater levels, elimination of all areas of deficient stream flow in the eastern and southeastern United States, and general improvement in Canada were noted during August.

In Ontario, Canada, north and northeast of Lake Huron and in the extreme western portion of Quebec, however, storage reserves are now considerably below normal and abundant precipitation is needed in that area if existing deficiencies are to be relieved.

Highlights of the monthly joint stream flow report included floods—which were recorded breaking—throughout the central West and in northern New Jersey, western New York and northeastern Virginia; continuation of above normal flow in California, and below normal stream flow in the Pacific Northwest and Rocky Mountain area from Montana through Arizona. However, storage for irrigation and power has been well maintained.


Normal
EXPLANATION
Deficient stream flow
Excessive stream flow
525 Greater than any percentage previously recorded during August
42 Less than any percentage previously recorded during August
All numbers are percent of normal (median or mid-value) stream flow for month of August
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY IN COLLABORATION WITH CANADA, DEPARTMENT OF MINES AND RESOURCES DOMINION WATER AND POWER BUREAU

C. W. McFERRON (below) has been county engineer at Oklahoma City, Okla. for the last six years and before that was with the Oklahoma Highway Department for twelve years, eight as resident engineer and four as construction engineer.

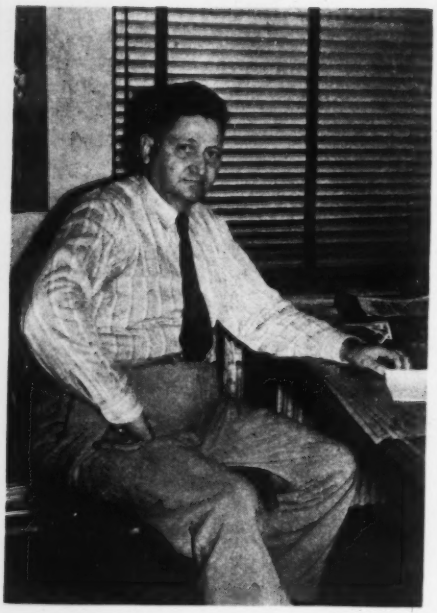


Highway work was the chief problem of JOHN M. MALLOY, county engineer of Scott County, Iowa, when this picture was made. Mr. Malloy, a graduate of Iowa State College, Class of 1911, has been engineer of that county for several years.

One reason for St. Louis, Mo.'s excellent [illegible] water is the hard work of THOMAS J. SHEEHE[illegible] (below), water commissioner for the city and for several years connected with the water department in various engineering capacities.

MEN AT WORK

HARLAN F. HARRIS (above) thrives on work with the U. S. Engineers. He has been with the Army engineers almost continuously since taking his degree at Iowa State College. He is now assistant engineer in the Tulsa (Okla.) district office.



WALTER S. TODD, bridge construction engineer, Kentucky State Highway Department, has just taken time out from his many duties to discuss the major bridge jobs now under construction in his state.

H. W. SMITH (above), is superintendent for the Mt. Vernon Bridge Co. on a bridge nearing completion across the Salt River, south of Louisville, Ky.

In charge at Wolf Creek Dam on the Cumberland River in Kentucky for the S. A. Healy Co., general contractors, are JOHN ALEXANDER (left), project manager, and P. M. RICHARDS, office engineer.

BRIEF NEWS

L. DEMING TILTON, formerly regional chairman for the National Resources Planning Board, has been retained as consultant by the San Francisco Planning Commission. The commission has been giving special attention to traffic problems, and for some time has had the part-time services of E. P. Goodrich, consulting engineer of New York, who instituted a program of one-way streets, restricted parking areas and other measures. At the expiration of the Goodrich contract, Mr. Tilton was retained to give continuous attention to city planning problems.

MEXICO'S highway construction and improvement program is to be advanced with proceeds of the increase of $5,250,000 ordered in the 1942 issue of United Mexican States Highway Bonds. This additional money will be devoted to existing roads and for the building of new highways.

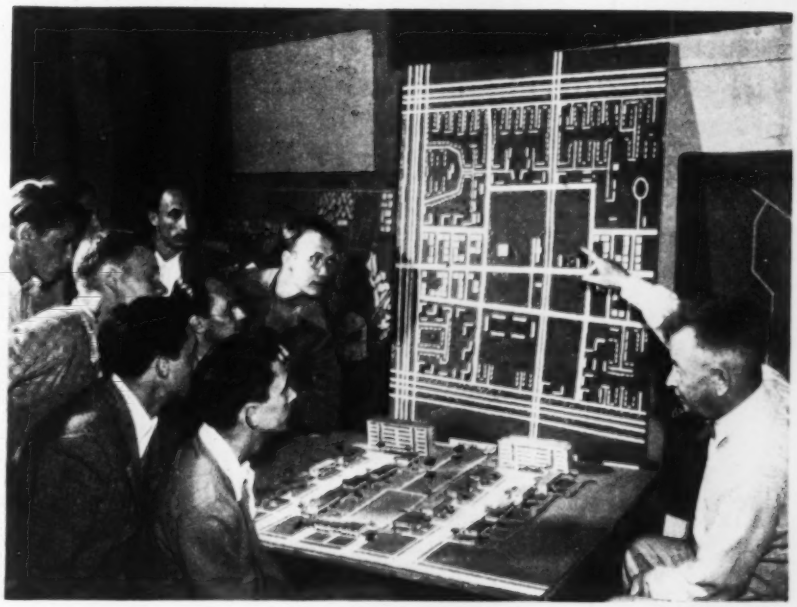
KENTUCKY State Highway Department statistics indicate that during July the state's income from toll bridge collections decreased 28.2 percent. Commissioner of Highways J. Lyter Donaldson said that the drop was the sharpest since Pearl Harbor. Automobile traffic was down 30.9 percent from last July, and truck traffic decreased 25.1 percent. Receipts for the month totalled only $136,771, as compared with $190,465 in 1941.

WITHIN the next month, barring unforeseen accident, Key West, Fla., citizens will no longer be dependent on rains for their water supply. A 167-mile pipeline from the mainland is already in use (*ENR*, Sept. 10, p. 340), and domestic service awaits completion of a 100,000 gal. tank to connect the distribution system.

TOLLS collected on the Overseas Highway linking Key West with the Florida mainland, totalled $319,677.75 for the fiscal year ending August 31st. This is said to be a new high record.

FLOOD damage in the Cameron County area of Pennsylvania in July floods has been set at $2,489,320 by Governor James' Flood Emergency Committee. The committee is studying ways and means to preclude flash floods, but cannot start work on any control projects at present, although debris and gravel bars are being removed from streams and in some cases channels are being straightened.

BUILDING permits issued in the City of Portland, Ore. totalled $2,375,430 in August.



Press Assn. photo

Post-war city planners in the making

At Cranbrook Academy of Art, at Bloomfield Hills, near Detroit, Mich., these students gather to study post-war city planning. Under the tutelage of Eliel Saarinen, Finnish-born architect and city planning engineer, they are learning what Saarinen believes to be the solution of city planning problems—the decentralized city developed through integrated regions and flexible growth patterns for organic communities.

Already the cities of Hartford, Conn., Madison, Wis., Cleveland, Detroit and Chicago have been subjects for planning studies at Cranbrook Academy. These studies involve, first, an analysis of the city's past, present and probable future; second, synthesis of the social, economic, political and cultural components in terms of an organized pattern of civic activities, and, third, project of a physical program of future development, based on this synthesis.

Practical results of the decentralized city theory may be seen in such mid-west cities as Flint and Saginaw, Mich.

Trans-Florida pipeline work starts in month

Construction of the government-owned, Carabelle-to-Jacksonville, trans-Florida pipeline is scheduled to start on or about Oct. 1, and the line is expected to be complete by Dec. 15, according to Petroleum Coordinator Harold L. Ickes.

On its completion, the 185 mile line will begin delivery of 35,000 barrels of petroleum products daily to Jacksonville, from which point it will be distributed by barge along the Atlantic intracoastal waterway as far north as Virginia.

To be constructed entirely of second-hand equipment dug up and dismantled in Texas (*ENR*, July 16, p. 76), the line is part of a nationwide oil pipeline program designed to relieve the present oil shortage in the East.

Some 50 miles of 8-in. pipe have already been shipped eastward. An average of 30 miles of pipe will be shipped each week until the required quantity has been moved to location. In addition, three storage tanks with a total capacity of 172,500 barrels, have been dismantled and are now en route by rail and water to Florida.

Thousand Island Bridge defaults bond issue

The Thousand Island Bridge Authority, of Alexandria Bay, N. Y., owners of a structure linking upper New York State and lower Ontario, Canada, recently notified holders of its outstanding $3,050,000 bonds that it would be unable to meet the interest due Sept. 1.

Default on the bond issue is not considered by financial experts to be a tremendously vital matter in itself, especially since only a temporary lack of payment is involved.

However, the bridge authority, which depended for its revenue on traffic almost wholly of a pleasure nature, has found that gasoline rationing on both sides of the border has cut this revenue to a point where it has become a question either of paying interest on the bond or maintaining the structure itself. The structure was opened in 1938.

As far as has been determined by study of the bond market, the default has not affected bond issues such as those of the Port of New York Authority, the Triborough Bridge Authority, and the Pennsylvania Turnpike.

Draft price ceiling order governing all non-war construction work

OPA submits its proposal to construction industry for discussion. Ceiling price covers five major factors of contract cost

The Office of Price Administration has finally settled on a draft of its proposed price ceiling on non-war construction. Last week it presented the draft for discussion to presentatives of the construction industry.

As predicted (*ENR*, July 9, p. 57), the proposed order exempts construction contracts or sub-contracts entered into with the Army or Navy. In the case of such contracts, the contractor must file with OPA a statement that he has made no purchases at higher than ceiling prices. Other federal agencies, apparently, would be covered.

The ceiling price on construction work contracted for on a cost-plus basis is set as follows: actual cost of materials and supplies; plus labor at the rates "in the area of installation" as of last July 1; plus actual rentals paid for equipment; plus any other direct costs including sub-contracts; plus a mark-up to cover overhead, administrative, and supervisory costs and profit. If the contractor did any similar work between Jan. 1, 1939, and March 31, 1942, the markup he may charge is the markup on the most recent such job. If he did no comparable work, the maximum markup is what he would have charged had he done comparable work—either on the basis of his own experience or, if this is lacking, that of the industry.

The ceiling price on contracts on a lump-sum or unit price basis, where the price is set in advance, is calculated in the same way as the cost-plus ceiling except that estimated instead of actual costs are used. At the end of the job, if the actual costs exceed the estimated cost, the OPA order would permit the contractor to charge the buyer, if the contract so provides, for the additional costs up to a maximum of 10 percent. If the excess is more than 10 percent, the contractor has to take the loss.

If, on the other hand, the actual costs prove less than estimated, the contractor must refund to the buyer 75 percent of the saving.

The proposed price order makes no provision for protecting existing contracts. Hence any construction work underway at the time the order went into effect would have to be re-priced in accordance with the order.

The order has not yet been formally issued, and it is of course possible that it will be substantially modified.

Trucks may keep Penn Turnpike in black

Truck traffic on the Pennsylvania Turnpike will keep the two-lane, nonstop superhighway operating in the "black," Turnpike Commission officials said recently, despite a 50 percent drop in passenger car travel.

Thomas J. Evans, acting chairman of the commission, said truck travel on the 160-mile toll road has increased 30 percent since Dec. 7, with more than 1000 trucks traveling the turnpike each day at present, as compared with 470 per day during the first months of operation. During August, Evans said that 1026 trucks used the turnpike daily, 85 percent of them hauling war materials. Passenger car traffic during the month averaged 2500.

• • •

Begin dismantling Tacoma Bridge towers and cables

Steel workers were busy last week dismantling the twisted towers and cables of the collapsed Tacoma Narrows Bridge at Tacoma, Wash., in an effort to salvage the metal for war use.

Work started with breaking up of concrete anchors that secured the ends of the suspension cables. Each cable, stretching more than a mile and a half, will be carefully unraveled. After the collapse of the bridge on Nov. 7, 1940, Washington State Toll Bridge Authority officials were forced to leave the towers and cables standing until scrap steel prices made it profitable to tear them down.

The Woodsworth Company of Tacoma and J. Philip Murray of San Francisco are contractors for the demolition work.

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Plan postwar rebuilding of Boston Post Road

Connecticut Highway Commissioner William J. Cox and New York City Park Commissioner Robert Moses met last week to discuss plans for post-war reconstruction of the Boston Post Road, which starts at New York City and runs through Connecticut to the Massachusetts capital.

Tentative plans call for improvement of the road through Connecticut generally, a "very intricate" connection at Port Chester between the Boston Post Road, the Merritt Parkway, and a proposed Pelham-Port Chester Parkway.

Canada's lumber industry put under rigid control

Because Canada's timber shortage threatens to be the "gravest" in the country's history, the lumbering and logging industry has been officially classed as an essential industry, and the use of timber by civilians, municipalities and railways will be rigidly controlled, according to C. D. Howe, Canadian minister of munitions and supply.

A. S. Nicholson, a member of Mr. Howe's staff, has been appointed timber controller. Production of newsprint has already been brought under control (*ENR*, Sept. 10, p. 339) to make possible conserving power and water, and to divert pulpwood logs to the making of lumber. Export of logs to the Pacific Coast pulp and paper mills in the United States will be restricted drastically.

To spur production, price increases on certain grades of lumber will be permitted, and a lumber division of the Commodity Price Stabilization Corporation will be set up to provide financial assistance.

Explaining the move, Mr. Howe said that production in 1941 was 5,000,000 bd.ft. of lumber, but because of labor difficulties, 1942 production will be much less. The industry is committed to deliver 1,040,000,000 ft. for war purposes in the remaining four months of this year—three-quarters of which is for export to the United States, Britain and others of the United Nations. "Unless production is boosted, these commitments will leave no timber for domestic use," Mr. Howe said.

• • •

Oklahoma City expects saving on Bluff Creek Dam

With less than 500,000 cu.yd. of fill yet to be placed for the Bluff Creek Dam project near Oklahoma City, Okla., city officials believe they will be able to effect sufficient savings in this city water supply job to insure construction of a new filtration and pumping plant.

On the basis of cost to date, the entire job, including excavation for the diversion canal, will have an overall unit cost per cubic yard of slightly less than 33 cents. This figure is expected to insure a final cost of between 17 and 20 cents per yard below the bid of the only contracting firm that submitted bids at a general letting. This bid was so high that the city decided to do its own construction work. Officials estimate that on the basis of present costs, about $1,260,000 of the original $6,911,000 bond issue will be left for construction of the filtration and pumping plant.

For a detailed description of this project, see *ENR*, May 7, p. 788.

OBITUARY

Gustave B. Hegardt, 83, former chief engineer and port manager of Oakland, Cal., died recently at an Oakland hospital. Born in Stockholm, Sweden, Mr. Hegardt came to the United States soon after completing his education and among other jobs took part in the construction of breakwaters at Chicago, Ill., locks and dams on the Illinois river, the Cascade locks in Oregon and the jetties at the entrance to the Columbia river, and some of the fortifications at the river's mouth. Before coming to Oakland in 1925, he was for 16 years Port Manager and Chief Engineer of the commission of public docks at Portland, Ore.

S. G. Phillips, 68, a construction engineer for the Chicago Mill & Lumber Co., at Tallulah, La., died there recently.

Albert C. D. Sanderson, 65, civil engineer for the Standard Oil Co. of New Jersey, died Sept. 7 at Roselle, N. J.

Leonard Cunningham, 61, an engineer for the No a Scotia, Canada, department of highways, died at Halifax, recently.

Anthony L. Williams, 54, a civil engineer for the Lykens and Williamstown mines of the Susquehanna Collieries Co., died at Nanticoke State Hospital, Pa., recently.

George A. Gregg, 67, Fayette County, Ohio, engineer, died recently.

William Lafayette Damon, engineer and road builder of Birmingham, Ala., died there Sept. 8. He was 65.

James Sidney Churms, 63, retired sanitary engineer, died recently at his winter home in Deland, Fla.

Charles D. Kaeding, 61, civil engineer, geologist and mine builder in the United States and Canada, died Sept. 9 at Toronto, Ont. A native of California, Mr. Kaeding was president of the K Engineering & Security Co., Ltd.

Fred C. Sieber, 50, highway commissioner of Shawano County, Minn., for the past 12 years, died recently.

Richard W. White, 67, superintendent of the water and sewer department of Mt. Morris, N. Y., died recently.

John Craig, 67, construction engineer for the Canadian National Railway at Victoria, B. C., died there Sept. 6.

Arthur Peabody, 83, former Wisconsin state architect, who designed 70 state and university campus buildings at Madison, Wis., died Sept. 6. He was secretary of the Wisconsin Board of Architects and Engineers.

Nicholas Kempf, 63, contractor of Buffalo, N. Y., died there recently.

Ernest L. Burriss, 66, retired building contractor of Georgetown, S. C., died there recently.

John L. Roberts, 81, building contractor at Winchester, Mass., died there Sept. 12.

Brig. Gen. Luke H. Callan, first World War hero, former candidate for governor of Rhode Island, and a Bristol, R. I., road contractor, died Sept. 9 at New York City.

G. C. Brown, 58, building contractor of Burlington, N. C., died there recently.

Howard A. Flewelling, 80, for many years a building contractor at Needham, Mass., died in a local hospital on Sept. 12.

Watson Townsend, 69, office engineer for the maintenance division of the Oregon Highway Department, died at Salem, Ore., Sept. 9. He had been an employee of the department since 1911.

CONTRACTS AND CAPITAL

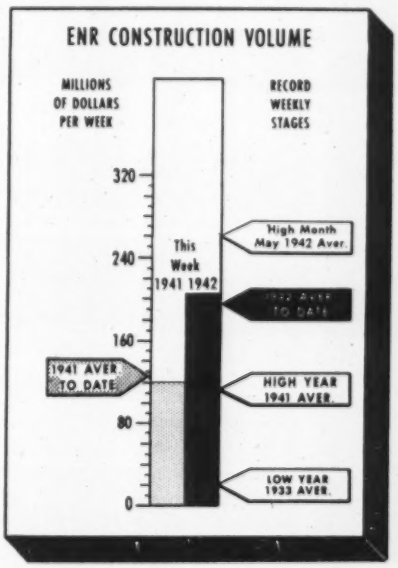
ENGINEERING CONSTRUCTION volume for the week totals $206,028,000, more than double the $97,311,000 reported for the holiday-shortened preceding week, and 71 percent above the total for the corresponding 1941 week. Federal construction makes up 93 percent of the week's volume and tops a year ago by 134 percent. As a result of the gain in federal, public work is 99 percent higher than a year ago, despite the 66 percent drop in state and municipal construction. Private work is 59 percent lower than in the week last year.

The current week's volume brings 1942 construction to $7,484,907,000, an increase of 60 percent over the total for the 38-week period in 1941. Private construction, $467,121,000, is 50 percent below a year ago, but public work is up 88 percent due to the 136 percent gain in federal construction.

In the classified construction groups, gains over the short preceding week are in waterworks, sewerage, bridges, commercial and public buildings, earthwork and drainage, streets and roads, and unclassified construction. Increases over the 1941 week are in waterworks, sewerage, commercial and public buildings, streets and roads, and unclassified construction.

New capital for construction purposes for the week totals $2,293,000. This compares with $8,863,000 reported for the corresponding week last year. The current week's new financing is made up of $778,000 in state and municipal bond sales, $515,000 in corporate security issues, and $1,000,000 in RFC loans for public work.

New construction financing for the year to date, $9,527,250,000, is 63 percent higher than the $5,851,527,000 reported for the 38-week period a year ago.



CONTRACTS

(Thousands of dollars)

	Week Ending Sept. 18 1941	Sept. 10 1942	Sept. 17 1942
Federal	$81,832	$75,522	$191,541
State & Municipal	17,717	5,869	6,072
Total public	$99,549	$81,391	$197,613
Total private	20,766	15,920	8,415
TOTALS	$120,315	$97,311	$206,028
Cumulative 1942	(38 weeks)		$7,484,907
1941	(38 weeks)		$4,679,434

Note: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1941 38 weeks	1942 38 weeks
NON-FEDERAL	$1,025,409	$560,352
Corp. Securities	306,117	169,839
State & Mun.	340,632	178,358
U.S.H.A. loans	30,399	.....
R.E.A. loans	100,500	.....
R.F.C. loans	84,761	129,455
Fed.-Aid—Highways	163,000	82,700
FEDERAL	$4,826,118	$8,966,898
TOTAL CAPITAL	$5,851,527	$9,527,250

ENR INDEX NUMBERS

Index Base = 100		1913	1926
Construction Cost	Sept. '42	281.61	135.37
Building Cost	Sept. '42	225.46	121.88
Volume	Aug. '42	622	273

FHA MORTGAGES

	Week Ending 1941 Sept. 13	1942 Sept. 5	1942 Sept. 12
Selected for appraisal			
Title II	$26,893	$6,059	$5,410*
Title VI	$3,265	$15,171	$9,751*

* Subject to revision.

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

Location of ENR Correspondents

Symbols and Abbreviations Include

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily
A-E-M Architect — Engineer-Management type of contract.

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger; water supply, earthwork, waterworks, $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply — Unclassified
Sewers, Waste Disposal — Latin America
Bridges, Grade Cross'gs — Public Buildings
Streets & Roads — Commercial Buildings
Earthwork, Waterways — Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR);

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, addresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

WATER SUPPLY

PROPOSED WORK

†**Conn., Groton**—Federal Works Agency, 2 Lafayette St., New York, N. Y., water sys. $15,000. Metcalf & Eddy, 1300 Statler Bldg., Boston, Mass., engrs.

La., New Orleans—Sewerage & Water Bd., waterworks imprvs., $30,165. Applied for FWA funds. A. B. Wood, 526 Carondelet St., New Orleans, engr.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, bids soon installing water softening equip. Plans deposit $50.

★**Tex., Houston**—City, emergency WW imprvs., constructing open earth canal between San Jacinto River and ship channel area. $1,925,530. Applied to FWA for funds. Haile & McClendon, 2801 San Jacinto St., and G. L. Fugate, c/o City, engrs. CD 9/3—ENR 9/10.

Tex., LaPorte—F. R. Ruff, mayor, water facilities. $65,000. Applied for FWA funds. Ajax Engineering Co., 603 8 St., engrs.

Tex., Texas City—Galveston Co. Water Control & Imprvt. Dist. 4, Texas City, made plans WW sys., $150,000; storm and sanitary sewerage sys. $150,000. Seeking federal loan and gr.

B. C., Victoria—City Clerk bids soon chlorinator. $35,000.

N. B., Moncton—Bids soon raising dam at McNutt Reservoir, installing new pump. unit at pump. sta. and laying 20 in. main from McNutt Reservoir to pump. sta. $275,000. E. B. Martin, c/o City, engr. CD 9/10.

Ont., Peterboro—Wartime Housing Ltd., 55 York St., Toronto, watermain and sewer construction to housing development. $40,000.

BIDS ASKED

Bids Asked September 22

Man., Winnipeg—Secretary Dpt. P. Wks., Ottawa, Ont., pump. plant at Deer Lodge Hospital. $25,000.

Bids Asked

†**Texas**—U. S. Eng., Fort Sam Houston, water wells, Spec. 42-383. Plans deposit $25.

LOW BIDDERS

†**California**—Federal Works Agency, 1206 Santee St., Los Angeles, Sept. 4, Alto reservoir, Docket 4-242, Cont. 4, Inv. 6 RE-121, Marin Co., from Underground Contr. Co., 354 Hobart St., Oakland, **$58,185.** CD 8/26.

†**Ind., Charlestown**—Town Bd., E. H. Orman, chn., waterwerks, 3 mi. watermain, pump. station, from Weikel Constr. Co., 243 Farmers Trust Bldg., Fort Wayne. Est. **$110,000. FWA.** CD 9/3—ENR 9/10.

N. C., Charlotte—R. W. Flack, city mgr., Sept. 1, WW addn., from Boyd & Goforth, Inc., 617 N. Smith St. **$24,248.** CD 8/28.

†**Utah, Ogden**—Federal Works Agency, Ness Bldg., Salt Lake City, 2 concrete storage reservoirs, laying 2,200 ft. supply line from Strong Canyon and 15,000 ft. 10 in. line to supply water to housing project, to Shumaker-Evans Contractors Co., 3000 N. Central Ave., Phoenix, Ariz.

CONTRACTS AWARDED

†**Alabama**—U. S. Eng., Chrysler Bldg., Atlanta, Ga., water distr. sys., to D. M. Farris, Nashville, Tenn.

†**Arizona**—U. S. Eng., Albuquerque, drilling water wells, Cochise Co., to Wininger Bros., Safford, under **$50,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, drilling water well, Riverside Co., to Roscoe Moss Co., 4360 Worth Ave., Los Angeles, under **$50,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, water supply sys., San Bernardino Co., to Harry Friedman, 2310½ W. Vernon Ave., Los Angeles. **$50,000-$100,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, water well drilling, to Coburn & Brewster, Paso Robles. Awarded 9/8.

†**Conn., Groton (br. New London)**—Boro. 4,000 ft. 12 in. watermains, repairing dam leakage, Groton Boro Dam, to N. Benvenuti & Sons, 6 Elm St., New London, **$83,650. FWA.** Metcalf & Eddy, 1300 Statler Bldg., Boston, Mass., engrs. CD 9/3—ENR 9/10.

†**Flor'da**—U. S. Eng., Courthouse & Postoffice, Jacksonville, drilling wells, Hillsborough Co., to Layne Atlantic Co., Orlando, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse & Customhouse, Mobile, Ala., water, electric, gas, fencing, Franklin Co., to Smith, Yetter & Griffin, 337 Worth Ave., Palm Beach. **$100,000-$500,000.**

†**Florida**—U. S. Eng. Courthouse and Postoffice, Jacksonville, water and sewerage sys., Dade Co., to Brady Roofing Tiles Mfg. Co., 3260 N.W., 27 Ave., Miami, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse and Postoffice, Jacksonville, water and sewerage sys., Dade Co., to W. T. Price Dredging Corp., 32000 S.N. 27 St., Miami. **$50,000-$100,000.**

†**Florida**—U. E. Eng., Courthouse and Postoffice, Jacksonville, drilling wells, Highlands Co., to Layne Atlantic, Cromwell Rd. and Flanders Ave., Norfolk, Va., under **$50,000.**

†**Florida**—U. S. Eng., Courthouse and Postoffice, Jacksonville, water and sewerage sys., Marion Co., to L. P. Saine, Jacksonville, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse and Postoffice, Jacksonville, water supply and sewerage sys., Osceola Co., to Langston Constr. Co., Orlando, under **$50,000.**

†**Georgia**—U. S. Eng., Courthouse & Postoffice, Jacksonville, Fla., drilling well. Thomas Co., to Stevens Southern Co., Jacksonville, Fla., under **$50,000.**

†**Idaho**—U. S. Eng., Pittock Blk., Portland, Ore., pump houses, sewer, water lines, Ada Co., to Jerry Nottingham, 2323 Regan Ave., Boise, under **$50,000.**

†**Iowa**—U. S. Eng., 1709 Jackson St., Omaha, chlorinating equipment, Woodbury Co., to Henry A. Zimmer, Moline, Ill., under **$50,000.**

†**Kansas**—U. S. Eng., Albuquerque, N. M., water, gas, electric and sewerage sys., Finney Co., to B & M Constr. Corp., Petro Bldg., Oklahoma City, Okla. **$100,000-$500,000.**

†**Kansas**—U. S. Eng., 601 [illegible] Kansas City, Mo., water [illegible] plant, to McDonald Const. [illegible] Const. Co., 1114 Bway., Kansas [illegible]

Kan., Coffeyville—Water line [illegible] airport, to Cement Asphalt Prod[illegible] field. **$16,515.** Bids 8/25. CD 8[illegible] ENR 9/3

†**Mass., Attleboro**—City Wat[illegible] Hall, watermain, Mass. [illegible] builds. **$15,000. FWA.** CD 8[illegible] ENR 9/3

†**Mississippi**—U. S. Eng., Court[illegible] tomhouse, Mobile, Ala., pump h[illegible] son Co., to C. M. Journey Co., [illegible] Memphis, Tenn., under **$50,000.**

†**Mississippi**—U. S. Eng., Court[illegible] tomhouse, Mobile, Ala., pump hou[illegible] Jones Co., to Layne-Central Co. [illegible] Ave., Memphis, Tenn., under **$50,000.**

†**Miss., Biloxi**—City, waterma[illegible] C. Docket 22-111, to Ray V. Pri[illegible] **$64,700. FWA.** CD 5/29—ENR 6/4

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, water wells, with motors, [illegible] Brown Co., to Layne Western Co., 807 World Herald Bldg., Omaha. **$50,000-$100,000.**

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, water distr. and sanitary sewerage sys., Brown Co., to Chambers Constr. Co., Lincoln, **$100,000-$500,000.**

†**Nebraska**—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., drilling wells, furnishing equip., Fillmore and Clay Counties, to Layne Western Co., 807 World Herald Bldg., Omaha, under **$50,000.**

†**Nebraska**—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., drilling wells, furnishing equip., Thayer Co., to Randecker Machine & Mfg. Co., Lexington, under **$50,000.**

★†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., water, electric, gas and sewerage sys., Middlesex Co., to Chas. P. Vachris, Inc., 827 Remsen Ave., Brooklyn, N. Y. **$1,000,000-$5,000,000.**

†**New Mexico**—U. S. Eng., Albuquerque, water, gas, electric and sewerage sys., Otero Co., to R. H. Fulton & Co., Lubbock, Tex. **$100,000-$500,000.**

†**New Mexico**—U. S. Eng., Albuquerque, water, gas, electric and sewerage sys., Curry Co., to Hayner & Burn, Las Cruces, **$100,000-$500,000;** electrical distr. and street lighting sys., Curry Co., to Lawrence Electric Constr. Co., Amarillo, Tex., under **$50,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, wells, Richland Co., to Layne Atlantic Co., Cromwell Rd. and Flanders Ave., Norfolk, Va., under **$50,000.**

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, water storage and distr. sys. and sanitary sewerage sys., Horry Co., to D. M. Rickenbacker, Union, **$100,000-$500,000.**

†**South Carolina**—U. S. Eng., Post Office Bldg., Savannah, Ga., wells, Aiken Co., to Layne-Atlantic Co., Cromwell Rd. and Flanders Ave., Norfolk, Va., under **$50,000.**

S. D., Yankton—Anna M. Goetz, city auditor, concrete reservoir, to J. L. Famestad, Yankton. **$25,077.** Bids 8/24. CD 8/19.

†**Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, tower for water tank, Cumberland Co., to Rule & Murphy Co., Memorial Apartment, Nashville, under **$50,000.**

†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, water lines, and sanitary and storm sewer lines, installing natural gas lines and facilities, to Brown-Lage Co., Orange. **$91,475.**

†**Texas**—U. S. Eng., Albuquerque, N. M., water, gas, electric and sewerage sys., Ward Co., to Uvalde Constr. Co., Santa Fe Bldg., Dallas, and Sorenson & Co., Dallas, **$100,000-$500,000.**

†**Texas**—U. S. Eng., 231 W. Main St., Denison, water softening equip., Childress Co., to Culligan Zeolite Co., Northbrook, Ill., under **$50,000.** CD 8/31—ENR 9/3.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, water storage tank, Dallas Co., to Parkersburg Rig & Reel Co., Parkersburg, W. Va., under **$50,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, rein.-con. ground storage for water supply, Spec. 42-396, to J. R. Blackmore & Sons, 1711 W. 5 St., Austin, **$50,000-$100,000.** Awarded 9/3. CD 8/28—ENR 9/3, under LB.

†**Texas**—U. S. Eng., San Antonio, water and sewerage sys., Bell Co., to Gayle Bros., 505 Blodgett St., Houston, under **$50,000.**

†**Texas**—U. S. Eng., San Antonio, water and sewerage sys., Cameron Co., to Wm. Andresen Plumbing & Heating Co., 432 E. 135 St., Brownsville, under **$50,000.**

†**Texas**—U. S. Eng., San Antonio, water and sewerage sys., Palo Pinto Co., to M. F. Fischer

WATER SUPPLY (Contracts Awarded, Cont'd.)

& Son, Builders Exchange Bldg., San Antonio, under **$50,000.**

†Tex., Pecos—Town, exten. watermains, Tex. 41-455 to Smith Constr. Co., Odessa, **$38,800.** FWA. CD 7/29.

†Washington—U. S. Eng., Pittock Blk., S.W. 10 Ave. and Washington St., Portland, Ore., water and sewerage sys., Clark Co., to J. T. Scott & Son and King & Co., Vancouver, under **$50,000.**

SEWERS, WASTE DISPOSAL

PROPOSED WORK

†California—U. S. Eng., 751 S. Figueroa St., Los Angeles, outfall sanitary sewer. Over $25,000. Koebig & Koebig, 458 S. Spring St., Los Angeles, engr.

Calif., Los Angeles—Bd. P. Wks., received no bids Sept 2, sanitary sewers in Belle Porte Ave. and 206th St. Sewer Dist. $59,091. L. Aldrich, City Hall, engr. CD 8/14—ENR 8/20.

†Conn., Fairfield—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., preliminary plans sewerage sys., Knapps Hy., $100,000. Whitman & Howard, 89 Broad St., Boston, Mass., engrs. CD 9/4—ENR 9/10.

†Illinois—U. S. Eng., 520 Merchandise Mart, Chicago, architect-engineer services by Greeley & Hansen, 6 N. Michigan Ave., Chicago, sewage disposal plant, Lake Co.

†Mass., East Longmeadow—Federal Works Agency, 99 Chauney St., Boston, bids soon sewage treatment plant, etc., Mass. 19-170, $14,260. CD 8/31—ENR 9/3.

†N. C., Wilmington—Federal Works Agency, 2 State Planters Bank Bldg., Richmond, Va., exten. sewerage sys., 3,000 ft. 24 in. mains. $32,300.

BIDS ASKED

Bids Asked October 8

Ill., Chicago—Clerk Sanitary Dist. of Chicago, 910 S. Michigan Ave., coal tunnel ventilation and drainage alterations, Div. AI, Southwest Sewage Treatment Works. Plans deposit $10.

Tex., La Porte—F. R. Ruff, mayor, sewer facilities, $79,000. Applied for FWA funds. Ajax Engineering Co., 603 S St., La Porte, engrs. CD 2/3—ENR 2/5.

★**Wash., Puyallup**—Sewers and treatment plant, $1,250,000. Federal funds sought. Parker & Hill, Smith Tower, Seattle, engrs.

Wash., Seattle—White Center Sewer Dist. (being formed) c/o Parker & Hill, engrs., Smith Tower, lateral sewers and drainage facilities. $377,000.

†Pacific Northwest—U. S. Eng., 810 3 Ave., Seattle, Wash., 2 sanitary sewerage sys.

LOW BIDDERS

†Ala., Sylacauga—City, Sept. 2, sewerage exten., Ala. 1-101, from Bush Bldg. Co., 805 8 St., Nashville, Tenn. **$31,611. FWA.** CD 8/31.

†California—U. S. Eng., Wright Bldg., Sacramento, Sept. 5, sewage pump. plant, facilities, Inv. 186, from MacDonald & Kahn, Inc., Financial Center Bldg., San Francisco, under **$50,000.**

Md., Baltimore—Bd. Awards, City Hall, Sept. 2, sanitary sewers, storm drains. Contr. 193, from Frank Angelozzi & Son, 123 S. High St., **$69,919.** CD 8/25—ENR 8/27.

†Texas—U. S. Eng., Fort Sam Houston, Sept. 4, addnl. sanitary sewers, Spec. 42-315, from Gayle Bros., 808 Blodgett St., Houston, under **$50,000.**

Wash., Renton—City, Sept. 1, trunk sewer, Sunset Hy., from M. Malaspina, 1803 30 Ave. S., Seattle, **$58,209.** Est. $60,000. J. W. Carey, Empire Bldg., Seattle, engr.

CONTRACTS AWARDED

†California—U. S. Eng., 751 S. Figueroa St., Los Angeles, main sewage pump. plant and sewage treatment plant, to Fritz Ziebarth, 820 W. Esther St., Long Beach., under **$500,000.** Awarded 9/1.

†California—U. S. Eng., Wright Bldg., Sacramento, sewage pump. station facilities, Contra Costa Co., to MacDonald & Kahn, Inc., Financial Center Bldg., San Francisco, under **$50,000.**

†Florida—U. S. Eng., Courthouse & Postoffice, Jacksonville, sewage disposal sys., Polk Co., to John Templin Lumber Co., Lakeland, under **$50,000.**

†Florida—U. S. Eng., Courthouse & Postoffice, Jacksonville, sewage and water distr. sys., Hillsborough Co., to Langston Constr. Co., Orlando, **$100,000-$500,000.**

†Maryland—U. S. Eng., Standard Oil Bldg., Baltimore, sewage, disposal plant, Harford Co., to Boyd H. Kline, Bloomsburg, Pa., **$50,000-$100,000.**

†Montana—U. S. Eng., Administration Bldg., Fort Peck, sewage treatment plant, Valley Co., to J. L. McLaughlin Constr. Co., Ford Bldg., Great Falls, under **$50,000.**

†Montana—U. S. Eng., Administration Bldg., Fort Peck, sewage treatment plant, Fergus Co., to Glacier Constr. Co., Cut Bank, under **$50,000.**

†New Mexico—U. S. Eng., Albuquerque, sewage disposal sys., De Baca Co., to F. D. Shufflebarger, Albuquerque, under **$50,000.**

†Rhode Island—U. S. Eng., 819 Industrial Trust Bldg., Providence, sewage disposal sys., to J. Williams, 8 Beechwood St., Dorchester, Mass. Est. **$25,000-$50,000.**

†South Dakota—U. S. Eng., 1709 Jackson St., Omaha, Neb., storm sewers, dirt work, Hughes Co., to Inland Constr. Co., 3867 Leavenworth St., Omaha, Neb. **$100,000-$500,000.**

Utah, Ogden—Storm sewer in Wall St. from 24 to 26 Sts., to Wheelwright Constr. Co., 2434 Monroe Ave., **$60,596.** Bids 9/1. CD 8/26—ENR 7/2.

†Virginia—U. S. Eng., 415 P. O. & Court House Bldg., Norfolk, equipping incinerators, Warwick Co., to Morse Boulger Destructor Co., 216 E. 45 St., New York, N. Y., under **$50,000.**

†Washington—U. S. Eng., 810 3 Ave., Seattle, sewerage sys., to Paine-Gallucci, 1521 S. Grant St., Tacoma. **$50,000-$100,000.**

Wis., Racine—City, repairing Grove Ave. Trunk Sewer, to Tomaro Contractors, Inc., 3404 E. Armour Ave., Cudahy, **$33,218.** Bids 8/20.

BRIDGES, GRADE CROSSINGS

PROPOSED WORK

Connecticut—State, W. J. Cox, comr., Hartford, rejected bids Sept. 9, sub-structure Prospect St. Bridge over Park River Conduit. Will readvertise. CD 9/3.

Missouri—State Hy. Comn., Jefferson City, 12 ft. rein.-con. culvert type span over stream, Cooper Co.; one 51 ft. and two 47 ft. continuous I beam spans under Kansas City Southern R.R., McDonald Co., over $25,000; two 10 ft. rein.-con. slab span culvert type bridge over stream, Randolph Co. C. W. Brown, Jefferson City, engr.

Missouri—State Hy. Comn., Jefferson City, rejected bids July 31, two 12 ft. rein.-con. slab span bridge, Pulaski Co., 18 ft. rein.-con. slab span bridge, Newton Co. CD 7/22—ENR 7/30.

Pennsylvania—State Hy. Dpt., Harrisburg, bridges carrying Route 170 over Northampton St., Wilkes-Barre Twp., and carrying relocated hy. over Central R. R. of New Jersey tracks, Ashley Boro; grade crossings at points where relocated hy. will cross Central R. R. of New Jersey tracks on boundary line between city of Wilkes-Barre and Wilkes-Barre Twp., and over industrial siding to Glen Alden Coal Co., Wilkes-Barre Twp., Luzerne Co. $463,000. T. C. Frame, ch. engr.

Que., Huntingville (P. O. Lennoxville)—Province of Quebec, Quebec City, rein.-con. bridge. $50,000. Dpt. Roads, Quebec City, engr.

Quebec City—Province of Quebec, Quebec City, bridge over Ste. Anne des Monts River, Ste. Anne des Monts, Gaspe Co. $35,000.

LOW BIDDERS

North Carolina—State Hy. & P. Wks., Raleigh, structure, U.S. 1, widening bridge over Drowning Creek, Richmond-Moore Co. line, Proj. 6674, from Bowers Constr. Co., 805 W. South St., Raleigh, **$26,247.** CD 9/1—ENR 9/3.

Texas—D. C. Greer, engr. State Hy. Dpt., Austin, Sept. 8, 4 concrete slab bridges 0.231 mi. Dallas Co., from W. S. Crawford, 4817 Montrose St., Dallas, **$126,377.** Est. $100,000. CD 9/4.

CONTRACTS AWARDED

†California—U. S. Eng., 74 New Montgomery St., San Francisco, wooden box culverts, to McGuire & Hester, 796 66 Ave., Oakland. Awarded 9/10.

N. Y., Little Valley—Cattaraugus County Hy. Dpt., Little Valley, rebuilding, repairing, etc., various flood damaged county-owned highway bridges and approaches, own forces. **$40,000.** H. C. Edmunds, co. supt.

†North Carolina—U. S. Eng., 308 Customhouse, Wilmington, repairs and addns. fender sys. railroad bridge, to J. D. Orrell, Wilmington. Est. under **$50,000.**

Tennessee—State Hy. Dpt. Nashville, overhead bridge, approaches, Coffee Co., to H. B. Garrett, Ashland, Ala., **$287,686.** CD 9/9, under LB.

Que., Ste. Emelie—Province of Quebec, Quebec City, rein.-con. bridge over River Henry, to X. Trudel & Sons, Notre Dame St. Ste. Irenee. Est. **$25,000.** E. Gohier Dpt. Roads, Quebec City, engr.

STREETS AND ROADS

BIDS ASKED

Bids Asked September 21

N. Y., St. George—President Richmond Boro, Boro Hall, asphalt block repaving Howard Ave.

Bids Asked September 22

Iowa—State Hy. Comn., Ames, paving 0.189 mi. U.S. 6 at C.R.I. and P.R.R. underpass between Stuart and Menlo, P. 624, Guthrie Co.; 1.338 mi. U.S. 67, SN-FA-114-H (1), Scott Co.; gravel surfacing 4.974 mi. County Trunk Rd. S from U.S. 18 to Mitchell Co. line, FSN 822, Floyd Co.; maintenance resurfacing 6 mi. Iowa 289 from Alta Vista to U. S. 63, Chicakasaw Co.; 10.3 mi. Iowa 203 from Milford to Terrill, M 3266, Dickinson Co.; 8.7 mi. Iowa 70 from Macksburg to U.S. 169, M 4342, etc., Madison Co.; 8.4 mi. Iowa 141 from Grange to Camp Dodge, M 1242, Polk Co.; roadside erosion control 0.861 mi. FN-357-AB(2); 7.246 mi. FN-357-C(2) both Chicakasaw Co.; 5.028 mi. FN-122 (5) Decatur Co.; 13.06 mi. FN-865-A (1) Fremont Co. F. R. White, Ames, ch. engr.

★**Ohio**—State Hy. Dpt., Columbus, bituminous road mix surface course on stabilized base, 10.658 mi. Sects. G, G-1, K and F of SH 349, Coshocton and Muskingum Counties, $111,600; asphaltic concrete widening, resurfacing 4.694 mi. Sect. Cambridge, SH 353, US 21, Guernsey Co., $92,700; 0.973 mi. Sect. Findlay of SH 221, Hancock Co., $22,700; 8.182 mi. Sect. Dunkirk, I. A. B and Arlington of SH 221, US 68, Hardin and Hancock Counties, $44,390; grading, drainage structures, tar and concrete widening, resurfacing 1.816 mi. Sects. P-1 and P-2, of SH 286, Henry Co., $69,100; waterbound macadam widening and asphaltic concrete resurfacing 3.727 mi. Sects. L and K of SH 155, US 33, Hocking Co., $68,600; 3.353 mi. Sects. F, Russells Point and Lakeview of SH 168, US 33, Logan Co., $85,800; grading, drainage structures, concrete paving, roadside imprvs., bldg. continuous concrete beam bridge with concrete substructure over Mahoning River, Sect. Q of SH 12, Portage Co., $288,200; 2.083 mi. Sects. W and T of SH 87, US 224, Portage and Mahoning Counties, $614,000; building continuous concrete girder bridge, on concrete substructure which has been built for continuous steel beam bridge over North Fork Licking River, 0.945 mi. Sect. F of SH 335, Licking Co., $30,290.

Bids Asked September 23

Louisiana—Dpt. Hys., Baton Rouge, imprv. S.P. 901-01-38 12,000 cu.yd. clam shell (alternate 11,079 cu.yd. washed gravel or 13,040 cu.yd. sand clay gravel); S.P. 901-01-39, 8,421 cu. yd. pit run gravel. W. Prescott Foster, dir.

Bids Asked September 24

Nebraska—Dpt. Roads & Irrigation, Lincoln, sand clay gravel surfacing 1.7 mi. Ainsworth-Brewster Project 399-L Rd.; 1,220 cu. yd. Pawnee City-Dubois Patrol No. 11015 Rd.; 2,800 cu. yd. Rockford-Burchard and Rockford-Crab Orchard Patrol Nos. 11025 and 11029 Rds.; 2,040 cu. yd. Reynolds Fairbury and Fairbury South Patrols 11032 and 11035 Rds.; 3,325 cu. yd. Patrols 11036, 11037 and 11064 Rds.; 2,090 cu. yd. Strang-Western Patrol 11039 Rd.; 1,130 cu. yd. Diller North and South Patrol 11043 Rd.; 1,910 cu. yd. Barada-Nemaha-Brownville Patrols 11053 and 11054 Rd.; 510 cu. yd. Table Rock-Lewiston Patrol 11058 Rd.; 900 cu. yd. Lorton West Patrol 11062 Rd.; 500 cu. yd. Friend South Patrol 11064 Rd.; 5,210 cu. yd. Pender-West Point and Wisner-Decatur Patrols 31024 and 31067 Rds.; 2,105 cu. yd. Winnebago-Decatur Patrol 31037 Rd.; 1,130 cu. yd. Pender-Walthill Patrol 31072 Rd.; 2,002 cu. yd. Kimball South Patrol 51005 Rd.; 2,729 cu. yd. Harrisburg-Redington Patrol 51007 Rd.; 3,679 cu. yd. Elwood-Holdrege Patrol 61019 Rd.; 2,412 cu. yd. Beaver City-Oxford Patrols 61021 and 61027 Rd.; 3,337 cu. yd. Alma-Franklin Patrol 61031 Rd.; 1,694 cu. yd. Minden-Holstein Patrol 61041 Rd.; 958 cu. yd. Minden-Franklin and Franklin South Patrols 61043 and 61044 Rds.; 4,092 cu. yd. Spencer-Niobrara and Spencer-O'Neill Patrols 81001, 81003 and 81012 Rds.; 1,198 cu. yd. Butte-Jamison Patrol 81007 Rd.; 5,501 cu. yd. Springview-Brewster Patrols 81020 and 81028 Rd.; 2,586 cu. yd. Bassett-Springview Patrol 81029 Rd.; 3,491 cu. yd. Taylor-Bassett Patrol 81031 Rd.; 1,266 cu. yd. Taylor Bassett Patrol 81032 Rd.; 2,469 cu. yd. Ord-Atkinson Patrol 81056 Rd. W. G. Scott, state hy. engr.

Bids Asked September 25

Kansas—State Hy. Dpt., Norton, light type surfacing 9.556 mi. K 3088; 0.236 mi. K 3087 Part 1; 10.008 mi. K 3087 Part 2, all Norton Co.; material resurfacing 11.492 mi. P. 3714, Thomas Co.; 6.099 mi. P. 3715 Smith Co.; 5.252 mi. P. 3712, 1.157 mi. P. 3713, both Sheridan Co.; 8.975 mi. P. 3711 Rooks Co.; 17.886 mi. P. 3710 Rawlins Co.; 7.869 mi. 3708 ABC; 9.728 mi. P. 3709 AB; and 7.572 mi. P. 3837, all Norton Co.; 6.83 mi. P. 3707, Graham Co.; 4.769 mi. P. 3705; and 12.387 mi. P. 3706 ABC both Decatur Co. R. C. Keeling, Topeka, engr.

Bids Asked September 30

Kansas—State Hy. Dpt., Abilene, material resurfacing 13.695 mi. P. 2556 AB, Saline Co.; 11.96 mi. P. 2555 AB, Ottawa Co.; 8.978 mi. P. 2552; 5.237 mi. P. 2553, 9.12 mi. P. 2554, all Dickinson Co.; 14.55 mi. P. 2557, Washington Co.; 20.708 mi. P. 2551 ABC, Chase Co.; light type surfacing 0.636 mi. K 2092, Chase Co., 8.653 mi. K 2091, Republic Co.; 7.1 mi. K 2090, Dickinson Co. R. C. Keeling, Topeka, engr.

STREETS, etc. (Bids Asked, Cont'd.)

Bids Asked October 6

†**Virginia**—Office Dist. Engr., Pub. Bldgs. Admin., 3102 City Post Office, Wash., D. C., concrete driveway, Spec. PB-DE-3.

Bids Asked

†**Louisiana**—U. S. Eng., Postoffice & Courthouse, Vicksburg, surfacing roads.

Missouri—State Hy. Comn., Jefferson City, rejected bids July 31, imprv. 2.145 mi. St. Charles Co. CD 8/5—ENR 8/13, under LB. Rejected bids imprv. 2.454 mi. McDonald Co., 2.146 mi. and 2.465 mi. Newton Co. CD 7/22—ENR 7/30.

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, clearing, grubbing, road construction, fencing, drainage.

South Dakota—State Hy. Comn., Pierre, rejected bids Sept. 8, gravel surfacing 15.236 mi. Shannon Co., 9.361 mi. Hanson Co.; resurfacing 37.132 mi. Corson Co.; 44.731 mi. Corson and Dewey Counties 14.408 mi. Bennett Co. CD 8/28.

Tex., Houston—N. Pickett, mayor, asphalt paving parking area, municipal airport, $25,000.

LOW BIDDERS

Calif., Los Angeles—Bd. P. Wks., City Hall, Sept. 2, imprv. Olympic Blvd. Park View St. to Western Ave., from T. E. Sherlock, 1103 W. 40 Pl., **$203,593.** CD 8/18—ENR 8/20.

Connecticut—State, W. J. Cox, comr., Hartford, Sept. 3, paving 8,320 ft. and 52 ft. bridge, Groton, from A. I. Savin Constr. Co., 10 Village St., East Hartford. **$392,346.** CD 8/28, under Roads and Bridges.

D. C., Wash.—Dist. Comrs., Sept. 10, 12,000 sq. yd. concrete sidewalks, from E. B. Donaldson Bros., 12 St. and Brentwood Rd. N.E., **$34,820;** 23,000 yd. concrete alleys, from Donaldson Paving Co., Inc., 20 Potomac Ave. S.W., Wash., D. C., **$67,734.** CD 9/4.

Idaho—A. C. Merritt, comr. P. Wks., Boise, Sept. 4, imprv. 4.085 mi. SN FAP No. 11-A(5), Elmore Co., from Quinn-Robbins Co. Inc., S. 16 St., Boise. **$145,331.** CD 8/26—ENR 9/3.

Illinois—Dpt. P. Wks. & Bldgs., Div. Hys., Springfield, Sept. 4, imprv. S.B.I. Route 31, Dist. 6, Patching 3, Adams Co., from H. H. Gunther Constr. Co., Galesburg, **$35,502***** S.B.I. Routes 149, 148, Dist. 9, Patching 9, Franklin and Williamson Counties, from Chernus Constr. Co., 918 N. 11 St., St. Louis, Mo., **$72,955*****Project 3A, Sect. 83, Lake Co., from E. A. Meyer Constr. Co., Highland Park, **$175,695*****S.B.I. Route 2, Sect. 69 RS, La Salle Co., from J. P. Wetherby Constr. Co., Ottawa, **$49,903*****S.B.I. Route 121, Sect. 138 Y, Macon Co., from J. M. Driscoll Co., Decatur, **$64,015*****S.B.I. Route 13, Dist. 8, Patch 1, St. Clair, Randolph and Washington Counties, from Moore Bros. Constr. Co., 2000 St. Clair St., East St. Louis, **$108,993*****S.B.I. Route 10, Sect. 16X, Sangamon Co., from Hurden Constr. Co., Reisch Bldg., Springfield, **$197,911*****FAP Route 12, Sect. Y2-E VB, Fayette Co., from Amos Culberson & Sons, Pana, **$33,149.** Received no bids FA Route 130, Sect. 113S-1, Lake Co.; S.B.I. Route 147, Sects. 120R and 121 R-1, Pulaski Co.; FAS Route 911, Sect. 34 G, Williamson Co.

Illinois—State Dpt. P. Wks. & Bldgs., Div. Hys., Springfield, Sept. 11, imprv. S.B.I. Route 30, 88 and 91, Peoria Co., from Standard Paving Co., 30 N. La Salle St., Chicago, **$58,532** ***S.B.I. Route 103 X, Tazewell Co., from Jansen & Schaefer, Pekin, **$114,971.** Received no bids imprv. F.A.S. Route 911, Williamson Co.

Ill., Chicago—Dpt. P. Wks., City Hall, Sept. 4, concrete paving E. 83 St. from S. Dorchester to S. Ellis Aves., from Chatham Paving Co., 7050 S. Wabash Ave., **$44,861.** CD 8/27.

Iowa—State Hy. Comn., Ames, Sept. 8, imprv. 1.54 mi. Woodbury Co., from Jensen & Krage, 209 Wright Bldg., Sioux City, **$133,398.** Rejected bids imprv. roads, Shelby, Fremont, Mahaska, Warren and Woodbury Counties. Received no bids imprv. roads, Madison, Taylor, Monona and Woodbury Counties. CD 8/31—ENR 9/3.

Maryland—State Roads Comn., Baltimore, Sept. 1, imprv. 3.07 mi. Anne Arundel Co., from Phillips Bros., Salisbury, **$265,640.** CD 8/24—ENR 8/27.

Michigan—State Hy. Dpt., Lansing, Sept. 2, grading, drainage, rein.-con. paving, bituminous surfacing 1.344 mi. M-82-110 C-1, Bellville Rd., Wayne Co., from Bridgeport Core Sand Co., 125 Davenport St., Saginaw, **$102,801.**

Minnesota—State Hy. Dpt., St. Paul, Aug. 28, imprv. 1.2 mi. S.P. 2574-03 (TH 8-114) and S.P. 2712-04, (TH 8-63), from C. F. Sculley Equip. Co., 519 Guardian Bldg., St. Paul, **$99,747;** 22,960 cu.yd. gravel for traffic bound wearing course, from Gunnefson & Ness, Mahnomen, **$32,482.** CD 8/12—ENR 8/20.

★**Nebraska**—Dpt. Roads & Irrigation, Lincoln, Sept. 3, imprv. 5.7 mi. Lincoln-Emerald, from Abel Constr. Co., 900 N. 16 St., Lincoln, **$545,358.** CD 8/28.

North Carolina—State Hy. and P. Wks. Comn., Raleigh, Sept. 10, imprv. 0.46 mi. Project 5060, Alamance Co., and 5.64 mi. Project 277, Cumberland Co., from F. D. Cline, Fairview Rd., Raleigh, **$31,720** and **$58,188** respectively, est. $25,000 and $75,000-$100,000 respectively. CD 9/1—ENR 9/3.

★**Pennsylvania**—State Hy. Dpt., Harrisburg, Sept. 4, imprv. 10,679 ft. Bradford Co., from N. B. Putman Co., Penn-Harris Hotel, Harrisburg, **$85,516*****16,629 ft. Erie Co., from A. J. Fasenmyer, Security Peoples Bldg., Erie, **$94,916*****3,628 ft. Montgomery Co., from John F. Keelor, Perkiomenville, **$260,295*****10,653 ft. Northampton Co., from General Paving Co., 1229 N. Queen St., Harrisburg, **$59,900*****30,552 ft. Schuylkill Co., All-State Constr. Co., 313 Chestnut St., Harrisburg, **$155,831*****14,839 ft. Susquehanna Co., from Suburban Constr. Co., P. O. Box 511, Ardmore, Pa., **$81,645.** CD 8/26.

Tennessee—State Hy. Dpt., Nashville, Sept. 4, imprv., 3.73 mi. Dickson Co., from Ralph Rogers Co., Warner Bldg., Nashville, **$217,030** imprv. 1.55 mi. and bridge Hy. 55, Coffee Co., from C. A. Thompson, Centerville, **$162,333.** CD 8/24—ENR 8/27.

Texas—D. C. Greer, engr. State Hy. Dpt., Austin, Sept. 8, imprv. 2.31 mi. Hy. M.F.-D.A.W.R. 46-A, Bexar Co., from H. L. Butler, 5219 Bradford Dr., Dallas, **$64,017,** est. $50,000; 8.811 mi. Hy. M.R.-D.A.W.R. 3-A(2) and 3-B(2), Bexar Co., from D. & H. Constr. Co., 5105 Denton Dr., Dallas, **$73,883,** est. $70,000. Received no bids Sept. 8, imprv. 6.941 mi. Bastrop Co. CD 8/31.

Tex., Angleton—Brazoria Co., F. A. Taylor, aud., Sept. 4, imprv. Springtown, Nolan & Turnbow Ranch Rds., from Texas Constr. Co., 2905 Milam St., Houston, **$27,750.** Est. $30,000. CD 8/24.

Utah—State Road Comn., Salt Lake City, Sept. 1, imprv. 1.16 mi. Tooele Co., from Reynolds-Ely Co., Springville, **$259,920.** Est. $198,880. CD 8/25.

CONTRACTS AWARDED

†**Alabama**—U. S. Eng., 306 Courthouse, Nashville, Tenn., clearing, grubbing, grading, Lawrence Co., to Oman Constr. Co., Acklen Park, Nashville, Tenn., **$100,000-$500,000.**

†**California**—U. S. Eng., 74 New Montgomery St., Los Angeles, paving bldg. areas, to E. E. Lowell, 1248 Georgia St., Vallejo. Awarded 9/3.

†**California**—U. S. Eng., Wright Bldg., Sacramento, surfacing, Kern Co., to Griffith Co., Railroad Bldg., Los Angeles. **$100,000-$500,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, streets and temporary frame bldgs., Los Angeles Co., to G. A. Bell, Bway Bldg., San Diego. **$100,000-$500,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, roads, San Francisco Co., to Lowrie Paving Co., Inc., 1540 16 St., San Francisco, under **$50,000.**

†**Connecticut**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., roads, parking areas, grass plots, Hartford Co., to The New Britain Trucking Co., New Britain, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse and Postoffice, Jacksonville, clearing, grubbing, grading, Jackson Co., to J. B. Gibson Constr. Co., Donalsonville, Ga., **$100,000-$500,000.**

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, roads, Hillsborough Co., to Cone Bros. Contg. Co., Caesar and Cumberland Aves., Tampa, under **$50,000.**

†**Florida**—U. S. Eng., Courthouse & Postoffice, Jacksonville, clearing, grubbing roads, Taylor Co., to Hubbard Contg. Co., Tampa, **$50,000-$100,000.**

†**Georgia**—U. S. Eng., Courthouse & Postoffice, Jacksonville, Fla., roads, Thomas Co., to Scott Constr. Co., Thomasville, under **$50,000.**

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, clearing, grubbing, grading, draining, paving, roadways, McIntosh Co., to L. H. Simkins, Augusta, **$50,000-$100,000.**

Idaho—State Dpt. P. Wks., Boise, crushed gravel surfacing 9.697 mi. Kootenai Hy., Boundary Co., to D. A. Sullivan, Parkwater, **$51,603,** bids 8/28***grading, crushed gravel surfacing 6.423 mi. Twin Buttes and Shelley-New Sweden Hy., Bonneville Co., to Dan J. Cavanagh, Twin Falls, **$98,321,** CD 8/26—ENR 9/3 under LB. Rejected bids Aug. 28, imprv. 12.47 mi. Moscow-Bovill Hy., Latah Co.

†**Illinois**—U. S. Eng., 520 Merchandise Mart, Chicago, access roads, Fulton Co., to Swords-McDougall Co. and R. A. Cullinan & Son, Tremont, under **$50,000.**

★†**Louisiana**—U. S. Eng., Postoffice and Courthouse, Vicksburg, Miss., roads, drainage, temporary frame bldgs., water tank tower, and sewage treatment plant, Lincoln Parish, to T. L. James & Co., Ruston, **$1,000,000-$5,000,000.**

†**Louisiana**—U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., surfacing roads, to J. L. James & Co., Inc., Ruston, **$50,000-$100,000.**

La., Natchitoches—3.2 mi. paving, WPA. Over **$103,000** gr.

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, roads and parking areas, Baltimore Co., to Consolidated Engineering Co., Inc., 20 E. Franklin St., Baltimore, **$100,000-$500,000.**

†**Maryland**—U. S. Eng., Standard Oil Bldg., Baltimore, roads and railroad sidings and unloading facility, Baltimore Co., to Leo J. McCort & Co., 16 S. Frederick St., Baltimore, **$50,000-$100,000.**

Minnesota—State Hy. Dpt., 1.8 mi. S.P. 6224-02C (TH [illegible]), Griffis, 4631 Wentworth Ave., **$130,541*****2.3 mi. S.P. 1906-[illegible], A. Guthrie & Co., 424 Endicott Bldg., St. Paul, Fielding & Shepley, 1258 Builders Exchange, St. Paul, and McCree & Co., 918 New York Life Bldg., St. Paul, **$161,025*****1.6 mi. S.P. [illegible] (TH 55-116) etc., to C. F. Sculley Equip. Co., 519 Guardian Bldg., St. Paul, [illegible] total $390,927. Bids 8/28.

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, clearing, grubbing, constructing roads, drainage, [illegible], to J. A. Jones Constr. Co., 209 W. [illegible] St., N. C., **$100,000-$500,000.** CD 9/[illegible].

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, roads, drainage, [illegible], to S. Birch & Sons Constr. Co., Great Falls, under **$50,000.**

†**Montana**—U. S. Eng., Administration Bldg., Fort Peck, roads, Glacier Co., to Frank J. Haas, 512 9 St. N.W., Great Falls, under **$50,000.**

★†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, concrete paving and stabilized base, Borwn Co., to C. W. Roberts, 1918 Term Bldg., Lincoln, **$1,000,000-$5,000,000.**

†**New Hampshire**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., grading, drainage, Cheshire Co., to Carle Bianchi & Co., 24 Union Ave., Framingham, Mass. **$100,000-$500,000.**

N. J., Newark—Essex Co., seal coating with tar and broken stone municipal roads to Marsellis Warner Corp., 10 Baldwin St., Montclair, over **$25,000.** Bids 8/4 W. Stickel, Hall of Records Bldg., engr.

†**New Mexico**—U. S. Eng., Albuquerque, dispalliative treatment, Bernalillo Co., to W. J. Culbertson, Albuquerque, under $50,000.

N. Y., Little Valley—Cattaraugus County Hy. Dpt., repairing, imprv., general maintenance county owned roads, own forces **$35,000.** H. C. Edmunds, co. supt.

†**North Carolina**—U. S. Eng., 308 Customhouse, Wilmington, grading, paving to L. B. Perry, Elizabeth City. Est. under $50,000.

Ohio—State Hy. Dpt., Columbus, widening asphaltic concrete surfacing 5.285 mi. Secs. A, B and C, State Hy. 34, Lake Co., to Cuyahoga Asphalt Paving Co., 13125 Shaker Square, Cleveland, **$72,218,** est. $72,200. Bids 9/1, State Hy. Dpt., cancelled bids to have been opened Sept. 1, imprv. 3.666 mi. Greene Co. Received no bids imprv. 5.181 mi. Lorain and Medina Counties, 7.878 mi. Adams Co. CD 8/24—ENR 8/27.

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, access roads, Muskogee Co., to S. E. Evans Constr. Co. and Layman & Co., Brazos, **$50,000-$100,000.**

†**Oregon**—U. S. Eng., Pittock Blk., Portland, surfacing roads and parking areas, Jackson Co., to M. C. Linninger & Sons, Ashland, under **$50,000.**

★†**Pennsylvania**—U. S. Eng., 6 and Walnut Sts., Phila., draining, paving, Berks Co., to Service Corp., Camp Hill. **$500,000-$1,000,000.**

†**South Carolina**—U. S. Eng., Fort Jackson, paving 37,000 yd., to W. F. Bowe, Jr., Augusta, Ga. Bids 9/2.

★†**South Dakota**—U. S. Eng., 1709 Jackson St., Omaha, Neb., stabilized base, asphalt topping, Hughes Co., to J. W. Craig Co., 1414 N. E. Calif. St., Minneapolis, Minn., **$1,000,000-$5,000,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, construction and asphalt paving parking area, concrete sidewalks, Spec. 42-301, to L. P. Sholl, 644 Park Blvd., San Antonio, under **$50,000.** Bids 8/21. CD 8/17.

†**Texas**—U. S. Eng., Fort Sam Houston, asphalt paving roads, concrete sidewalks, Spec. 42-164, to H. Page, Box 206, Bastrop, **$100,000-$500,000.** Awarded 9/7.

†**Virginia**—U. S. Eng., 415 P. O. Bldg. & Court House Bldg., Norfolk, paving roads, Warwick Co., to C. H. Lawson & E. G. Bowles, Williamsburg, **$100,000-$500,000.**

†**Washington**—U. S. Eng., 810 3 Ave., Seattle, widening, paving road, to A. W. Johnson and Goetz & Brennan, 208 E. Pacific St., Seattle, **$100,000-$500,000.**

†**Washington**—U. S. Eng., Textile Tower, Seattle, grading, draining access road, to Associated Sand & Gravel Co., 3124 Paine St., Everett, under **$50,000.**

West Virginia—State Road Comn., Charleston, imprv. 0.364 mi. Mason Co., to Price Constr. Co., Inc., 313 26 St., Huntington, **$49,202.** Bids 9/1. CD 8/21—ENR 8/27.

†**Latin America**—U. S. Eng., 751 Figueroa St., Los Angeles, Calif., highway, to The Foundation Co., 120 Liberty St., New York, N. Y., **$100,000-$500,000.**

N. S., Halifax—Municipality of Halifax, grading, graveling Dutch Village, to Standard Paving Co., Ltd., Lady Hammond Rd., Est. **$25,000.**

Ont., Barriefield — Dpt. National Defense, Ottawa, paving parade grounds, etc., at army camp, to M. G. Henninger, Brockville Rd., Smiths Falls, **$106,000.**

Quebec—Dpt. Roads, Quebec City, concrete paving 6 mi. Sir Wilfred Laurier Hy. between Ste. Rosalie and St. Simon, to Joseph

STREETS, etc. (Contracts Awarded, Cont'd.)

Nolin & Co. Ltd., 351 Blvd. Charest, Quebec City, **$69,107*****6.8 mi. Sir Wilfred Laurier Hy. between St. Nazaire, St. Eugene and St. Germain de Grantham, and 6.9 mi. same road between St. Germain de Grantham and Grantham West, to Armand Sicotte et Fils, 1905 Van Horne Ave., Montreal, **$86,177** and **$95,405** respectively***6.8 mi. Sir. Wilfred Laurier Hy. from St. Simon, St. Laboine and Ste. Helene and St. Germain de Grantham, to Enterprise de Constr. de Quebec, Ltd., 360 St. James St. W., Montreal, **$83,926.** Grand total $334,615.

EARTHWORK, WATERWAYS

PROPOSED WORK

Louisiana—Stevens & Co., Whitney Bldg., New Orleans, dredging 3 areas in Lake Borgne, each 4,800 ft. wide, 7,500 ft. long, St Bernard Parish. Applied to War Dpt. for permit.

Louisiana—Texas Co., 919 St. Charles St., New Orleans, dredging channel, 7 ft. below low water level over bottom width 60 ft., Iberville Parish. Applied to War Dpt. for permit.

†Maine—U. S. Eng., Park Square Bldg., Boston, Mass., soon lets contract, earthwork.

BIDS ASKED

Bids Asked September 25

†Arkansas—U. S. Eng., P. O. Box 60, Vicksburg, Miss., 1,190,000 cu.yd. or 1,574,000 cu. yd. earthwork, west bank of Mississippi River, Desha Co.

Bids Asked October 6

†New Mexico—Bureau Reclamation Tucumcari, J. C. Page, comr., earthwork and tunnel Sta. 1603 plus 75 to Sta. 1648 plus 68 Conchas Canal. Tucumcari Project, Spec. 1047.

LOW BIDDERS

Ill., Chicago—Dpt. P. Wks., City Hall, pile driving, breakwater repairs, from Great Lakes Dredge & Dock Co., 122 S. Michigan Ave., Chicago. **$97,699.**

†Louisiana—U. S. Eng., foot Prytania St., New Orleans, drainage ditch, Inv. 43-79, from Couch Constr. Co., and R. B. Tyler Co., 1446 Levering St., Louisville, Ky.

CONTRACTS AWARDED

†Arkansas—U. S. Eng., P. O. Box 97, Memphis, Tenn., levee constr., Inv. 1092-43-7F, to C. J. List Constr. Co., Railroad Exchange Bldg., Kansas City, Mo.

†California—Bureau Reclamation, Customhouse, Denver, Colo., reinforcing steel bars for penstocks, Keswick Dam, Central Valley Project, Inv. B-33, 131-A-2, to Republic Steel Corp., Republic Bldg., Cleveland, O. **$82,731.**

†Florida—U. S. Eng., Courthouse and Postoffice, Jacksonville, drainage sys., Hillsborough Co., to S. P. Stanfield, Tampa, under **$50,000.**

†Indiana—U. S. Eng., Postoffice and Courthouse, Cincinnati, O., soil erosion control, Bartholomew Co., to William H. Diddel, 4114 Carrollton Ave., Indianapolis, **$50,000-$100,000.**

†Massachusetts—U. S. Eng., Park Square Bldg., Boston, dredging, Inv. 175-43-Neg. 64, to Bay State Dredging & Contg. Co., 62 Condor St., East Boston. Est. **$25,000.** Bids 9/9.

†Mississippi—U. S. Eng., Postoffice and Courthouse, Vicksburg, earthwork, Bolivar Co., to S. K. Jones Constr. Co., Sterick Bldg., Memphis, Tenn., **$100,000-$500,000.**

†Mississippi—U. S. Eng., Postoffice and Courthouse, Vicksburg, canals, drainage ditches, Hickahala Creek area of Arkabutla Dam project, to R. W. Hyde Jr., Jackson, **$50,000-$100,000.**

†Missouri—U. S. Eng., Courthouse & Customhouse, St. Louis, piling dikes, to Massman-Peterman Co., 100 N. Bway., St. Louis. Est. **$50,000-$100,000.**

†North Carolina—U. S. Eng., 308 Customhouse, Wilmington, dredging, Hyde Co., to C. Walker Hodges Dredging Co. Inc., New Bern, under **$50,000.**

†Texas—U. S. Eng., Albuquerque, N. M., drainage and grading, Inv. W.911-43-33 or 36, in part, to Uvalde Constr. Co., Santa Fe Bldg., Dallas, **$50,000-$100,000** ea.

†Virginia—U. S. Eng., Standard Oil Bldg., Baltimore, dredging, Accomac Co., to Ocean City Dredging Co., Chincoteague, under **$50,000.**

Que., Riviere du Loup—Municipality, reconstructing concrete earth and rock fill dam, 815 ft. long, 21 ft. at top, 70 ft. base, to Dufresne Eng. Co., Ltd., 1832 Blvd. Pie Ninth, Montreal **$400,000** cost plus basis. O. Graham, Quebec Streams Comn., 100 E. Notre Dame St., Montreal, engr. CD 4/10—ENR 4/16.

UNCLASSIFIED

PROPOSED WORK

★**†Alabama**—IMPROVEMENTS—U. S. Eng., 306 Courthouse, Nashville, Tenn., imprvs. Under **$1,000,000.**

★**†Ala., Daleville**—AIR FORCE INSTALLATION—U. S. Eng., Courthouse & Customhouse, Mobile, air force installation. Over $3,000,000.

★**†Ariz., Marana**—AIR FORCE INSTALLATION—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., air force installation. Over $2,000,000.

†Arkansas—IMPROVEMENTS—U. S. Eng., Gay Bldg., Little Rock, imprvs.

★**California** — IMPROVEMENTS — H. J. Kaiser Co., 1522 Latham Sq. Bldg., Oakland, imprvs., bldg., steel stair tower to shop, repair shop, bldgs., etc.

California—IMPROVEMENTS—Moore Dry Dock Co., foot of Adeline St., Oakland, imprvs.

★**†Connecticut** — HANGAR—Industrial Co., service and maintenance hangar. $500,000. Federally financed. Albert Kahn Associate Archts. and Engrs., Inc., 345 New Center Bldg., Detroit, Mich., engr.

★**†Illinois**—IMPROVEMENTS—U. S. Eng., 520 Merchandise Mart, Chicago, military installation, Fulton Co. Over $5,000,000.

★**†Iowa**—IMPROVEMENTS—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., imprvs. Over $2,000,000.

Ia., Creston—AIRPORT—T. P. Welch, city clk., municipal airport. $50,000.

★**†Kansas**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., bldgs. $2,000,000.

★**†Kansas**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., bldgs. $2,000,000.

★**†Kansas**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., bldgs. $2,000,000.

†Louisiana—SPRINKLER SYSTEM—U. S. Eng., Postoffice & Courthouse, Vicksburg, automatic sprinkler sys. Under $50,000.

★**†Maryland**—IMPROVEMENTS—U. S. Eng., 1 and Douglas Sts., Wash., D. C., air force installation, Prince Georges Co. Over $3,000,000.

Minn., Duluth—FOREST—C. D. Jeronimus, city clk., municipal forest for Park Dpt. $234,600.

Mo., Springfield—AIRPORT—H. R. Garr, mayor, plans $350,000 bond election municipal airport. CD 12/4/40—ENR 12/12/40.

★**†Montana**—IMPROVEMENTS—U. S. Eng., Administration Bldg., Fort Peck, imprvs. Under $1,000,000.

★**†Montana**—IMPROVEMENTS—U. S. Eng., Administration Bldg., Fort Peck, imprvs. $1,000,000.

Mont., Bozeman—RUNWAYS, etc.—Lynch Flying School, Belgrade, imprv., exten. runways, hangars, office, repair shop for pilot trainees. $100,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., air force installation, Clay Co. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs. Over $2,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Under $1,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Under $1,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Under $1,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Over $1,000,000.

★**†Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs. Over $2,000,000.

Neb., Columbus — AIRPORT — Approved $33,500 bond issue, airport expansion. $200,000. CD 7/7—ENR 7/9.

†New Jersey—CONSTRUCTION—U. S. Eng., 120 Wall St., New York, N. Y., engineer-architect services, by Lockwood Greene Engineers, Inc., 10 Rockefeller Plaza, miscellaneous construction, Middlesex Co.

†New Mexico—FUELING SYSTEM—U. S. Eng., Albuquerque, fueling sys. Under $500,000.

†New Mexico—LANDING FIELDS—U. S. Eng., Albuquerque, architect-engineer services by Haynes & Strange, Voelcker & Dixon, Lubbock, auxiliary landing fields, Luna Co.

†New York—IMPROVEMENTS—Civil Aeronautics Admin., 14 St., Wash., D. C., imprvs. $485,000.

†New York—IMPROVEMENTS—Civil Aeronautics Admin., 14 St. between E and Constitution Ave. N.W., Wash., D. C., imprvs. $475,000.

†Oklahoma—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, bids soon, imprvs., grading, surfacing. $175,000.

★**†Oklahoma** — IMPROVEMENTS — U. S. Eng., 416 Wright Bldg., Tulsa, imprvs. Over $1,000,000.

★**†Oklahoma** — IMPROVEMENTS — U. S. Eng., 416 Wright Bldg., Tulsa, imprvs. Over $1,000,000.

★**†Oklahoma** — IMPROVEMENTS — U. S. Eng., 416 Wright Bldg., imprvs. Over $1,000,000.

★**†Oklahoma**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, imprvs. Over $1,000,000.

★**†Oklahoma**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, imprvs. Over $1,000,000.

S. D., Hot Springs—AIRPORT—G. O. Leach, city aud., exten., imprv. airport for civilian pilots training school. $50,000.

†Texas — LOADING FACILITIES — U. S. Eng., Fort Sam Houston, loading facilities. $100,000.

★**Texas**—PIPELINE—Stanolind Pipe Line Co., Ranger, will not construct 225 mi. 10 in. steel pipeline, between Ranger and Midland. $600,000. Project abandoned. CD 8/14/41—ENR 8/21/41.

★**†Texas**—RAILWAY SPURS, etc.—U. S. Eng., Fort Sam Houston, railway spurs and trackage $100,000; addnl. asphalt paving parking area $800,000.

★**Tex., McAllen**—AIRPORT—City, H. Etchison, mayor, expanding municipal airport. $500,000. Applying for federal aid. E. M. Card, city engr.

†Washington — CONSTRUCTION — U. S. Eng., 800 3 Ave., Seattle, engineer-architect services, by W. S. McCrack, Jr., Tacoma, miscellaneous construction, King Co.

★**Wash., Seattle**—DAM—City, County-City Bldg., rejected bids Aug. 6, raising Ross Dam. CD 8/7—ENR 8/13, under LB.

B. C., Vancouver — WATER DIVERSION SCHEME, etc.—Columbia Power Co., Ltd., 1029 Marine Bldg., water diversion scheme and power development, at Arrow Lakes. $100,000.

B. C., Victoria—POWER DEVELOPMENT—Vancouver Island Power Co., Ltd., Victoria, power development, Range 2 West, South Saanich.

Que., Quebec City — DEPOT — Dominion Govt., Ottawa, Ont., enlarging No. 4 Manning Depot on arena site. $150,000. Dpt. Air Defense, Ottawa, Ont., archts.

Sask., Morse—DAM—Canadian Pacific R.R., (Saskatchewan Dist.), C. H. Fox, dist. engr., Moose Jaw, earth, timber dam. $25,000.

BIDS ASKED

Bids Asked September 23

†Massachusetts—LIGHTING SYSTEM—U. S. Eng., Park Square Bldg., Boston, (selected bidders), lighting sys.

Bids Asked September 25

†Ala., Mobile—PLANTING—Pub. Bldgs. Admin., North Interior Bldg., Wash., D. C., planting at housing project.

Bids Asked About September 25

★**†Wash., Seattle**—AIRPORT—Civil Aeronautics Admin., Boeing Field, airport, with two 4,500 ft. runways, or 3 longer runways. Over $1,000,000.

Bids Asked

California—IMPROVEMENTS—H. J. Kaiser Co., 1522 Latham Sq. Bldg., Oakland, (from selected list contractors) imprvs., bldgs., etc.

Massachusetts — IMPROVEMENTS — Bethlehem Shipyards, Inc., E. Howard St., Quincy, (from selected bidders) imprvs., bldg. $40,000.

†Mississippi—IMPROVEMENTS—U. S. Eng., Courthouse and Postoffice, Vicksburg, imprvs.

†Mississippi—OIL STORAGE SYSTEM—U. S. Eng., Courthouse and Postoffice, Vicksburg, oil storage and dispensing sys.

†New Mexico—ELECTRICAL DISTRIBUTION SYSTEM, etc.—U. S. Eng., Albuquerque, outdoor overhead electrical distr. sys., about $25,000; sanitary sewer collection lines, facilities, about $25,000; water lines, facilities, about $15,000; natural gas lines, about $25,000. Plans deposit $25 ea. project.

†Texas—ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, electric distr. sys., Spec. 42-331. Plans deposit $25.

†Texas — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Fort Sam Houston, electrical distr. sys., Spec. 42-317. Plans deposit $25.

LOW BIDDERS

†California—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Sept. 8, electrical distr. sys., No. 231.

UNCLASSIFIED (Low Bidders, Cont'd.)

from Electric & Machinery Service, 424 E. Third St., Los Angeles, under **$50,000.**

†**California**—ELECTRICAL SERVICE, etc. U. S. Eng., 751 S. Figueroa St., Los Angeles, Sept. 2, electrical service, re-wiring shop, from Golden State Electric Co., 1515 W. 7 St., Los Angeles, under **$50,000.**

†**California** — FUEL DISPENSING SYSTEM —U. S. Eng., Wright Bldg., Sacramento, Sept. 5, fuel dispensing sys., from Aqua Systems, Inc., 701 E. 3 St., Los Angeles, under **$50,000.**

California — IMPROVEMENTS — Industrial Company, imprvs., railroads, from MacDonald & Kahn, Inc., 200 Financial Center Bldg., San Francisco. Est. **$183,000.**

†**California** — LIGHTING SYSTEM — U. S. Eng., 751 S. Figueroa St., Los Angeles, Sept. 2, lighting sys., No. 212, from U. S. Constr. Co., 111 E. Chartes St., Anaheim, under **$50,000.**

†**Idaho**—GASOLINE STORAGE SYSTEM—U. S. Eng., Pittock Blk., Portland, Ore., Sept. 5, gasoline storage and fueling sys., Inv. 221, from Central Calif. Constr. Co., 115 Burrows St., San Francisco, Calif., **$50,000-$100,000.** CD 8/31.

†**Nevada**—NIGHT LIGHTING SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., Sept. 4, night lighting sys., No. 220, from H. O. Bauerle, 8948 Ellis Ave., Los Angeles, Calif., under **$50,000.**

†**Texas**—ELECTRIC SERVICE, etc.—U. S. Eng., Fort Sam Houston, Sept. 4, outdoor underground electric service, area fencing, etc., Spec. 42-296, from V. and A. Falbo, 515 N. San Saba St., San Antonio. **$50,000-$100,000.**

★†**Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, Sept. 1, imprvs., clearing, grubbing, grading, drainage, etc., from Austin Road Co., 1813 Clarence St., Dallas, **$100,000-$500,000*****outside overhead electrical distr. sys., from Eugene Ashe Electric Co., 415 Jones St., Fort Worth, **$50,000-$100,000*****gasoline fueling sys., storage facilities, pump. unit, etc., from Wood Engineering & Constr. Co., Construction Bldg., Dallas, **$50,000-$100,000*****sewage treatment plant and water, storage and pump. sys., from Tellepsen Constr. Co., 3900 Clay St., Houston, **$100,000-$500,000** ea.*****sanitary sewer collection lines, and water distr. sys., from Williams & Whittle and Williams & Broughton, 5422 Mockingbird Lane, Dallas, **$50,000-$100,000** and unit **$50,030** respectively*****surfacing roads and streets from O'Neal Constr. Co., Construction Bldg., Dallas, **$100,000-$500,000.** CD 8/20—ENR 8/13.

★†**Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F Galveston, imprvs., from Cage Bros., Ballentyne Eng. Co., and W. R. Davis, 21000 Commerce Bldg., Houston, **$500,000-$1,000,000.**

†**Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, imprvs., drainage, etc., from McKinney Constr. Co., Marshall. **$100,000-$500,000.** CD 9/8—ENR 9/10.

★†**Texas**—RAILROAD RELOCATION—U. S. Eng., 231 W. Main St., Denison, Aug. 31, relocating 3.1 mi. railway (Frisco Ry. Co.), in Oklahoma between Randolph and Ravia, etc., for Denison Dam and Reservoir, near Madill, Okla., from Austin Bridge Co., 1813 Clarence St., Dallas, and Austin Contg. Co., Denison. **$550,818.** CD 8/19.

†**Texas**—UNDERGROUND UTILITIES—U. S. Eng., Fort Sam Houston, underground utilities, Spec. 42-336 (T3-9 and T3-15), from J. W. Munday, Kyle Hotel, Temple.

†**Washington**—GASOLINE STORAGE SYSTEM, etc.—U. S. Eng., Pittock Blk., Portland, Ore., Sept. 5, air corps gasoline storage and fueling sys., Inv. 222, from Central California Constr. Co., 115 Burrows St., San Francisco, Calif., **$50,000-$100,000.** CD 8/31.

Que., Valleyfield—TRAINING CENTRE—Dpt. National Defense, Ottawa, Ont., C.W.A.C. accommodation at CA.(B) Training Centre, from E. Ross, 5540 Woodbury Ave., Montreal. Est. **$200,000.**

CONTRACTS AWARDED

†**Alabama**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 494 Spring St. N.W., Atlanta, Ga., electrical distr. sys., Etowah Co., to Rogers Electric Co., 4613-10 Ave. N, Birmingham, under **$50,000.**

†**Alabama**—IMPROVEMENTS—U. S. Eng., Courthouse & Customhouse, Mobile, electrical work for imprvs., to Barnes Elec. Co., Tuscaloosa. CD 8/5—ENR 8/13, under CA.

†**Alabama** — LIGHTING SYSTEM — U. S. Eng., Courthouse & Customhouse, Mobile, night lighting sys., Inv. 569-43-88, to J. R. Hime Electric Co., 376 S. County Rd., Palm Beach, Fla. Est. **$100,000-$500,000.** Bids 8/28. CD 8/25.

†**Alabama**—NIGHT LIGHTING SYSTEM—U. S. Eng., Courthouse & Customhouse, Mobile, night lighting sys., Lee Co., to J. R. Hime Electric Co., 3765 County Rd., Palm Beach, under **$50,000.**

†**Arizona**—NUMBERING RUNWAYS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., numbering and marking runways, Maricopa Co., to J. A. Bridges, 822 N. 9 St., Phoenix, under **$50,000.**

†**Arizona**—OIL STORAGE SYSTEM—U. S. Eng., 741 S. Figueroa St., Los Angeles, Calif., lubricating oil storage, Pima Co., to J. S. Sundt, Tucson, under **$50,000.**

†**Arizona**—PAINTING—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., interior painting, Pinal Co., to J. H. Bridges, Phoenix, under **$50,000.**

†**Arizona**—RAILROADS—U. S. Eng., Albuquerque, N. M., railroads, Cochise Co., to The Waco Constr. Co., Waco, Tex., **$100,000-$500,000.**

★†**Arkansas**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., imprvs., Inv. 1092-43-75F, to Arkansas Sign & Neon Co., 708 Bway., Little Rock. Est. under **$1,000,000.**

★†**Arkansas**—SPRIGGING—U. S. Eng., P. O. Box 97, Memphis, Tenn., 250 acres spriging, to J. C. Griffith, Grand Cane, La. Est. under **$1,000,000.**

†**California**—CONCRETE FLOORS—U. S. Eng., Wright Bldg., Sacramento, concrete floors, to A. Teichert & Son, Inc., Box 1113, Sacramento. **$100,000-$500,000.**

†**California**—CONSTRUCTION—U. S. Eng., 751 S. Figueroa St., San Francisco, misc. construction, Los Angeles Co., to J. H. Axton, Glendale, under **$50,000.**

†**California**—CONSTRUCTION—U. S. Eng., 751 S. Figueroa St., Los Angeles, misc. construction, Los Angeles Co., to A. O. Miller Co., 1920 W. 7 St., Los Angeles, under **$50,000.**

†**California**—DOCK—U. S. Eng., 74 New Montgomery St., San Francisco, rehabilitation dock exten., to Ben C. Gerwick, Inc., 112 Market St., San Francisco. Awarded 9/10.

†**California**—ELECTRICAL WORK—U. S. Eng., 74 New Montgomery St., San Francisco, electrical work for A. C. gasoline storage sys., to Langlais Electric Co., 281 Forest, Pacific Grove. CD 8/8—ENR 8/10.

†**California**—FENCING—U. S. Eng., Wright Bldg., Sacramento, fencing, Kings Co., to Alcorn Fence Co., Los Angeles, under **$50,000.**

†**California**—FIRE and AIR RAID ALARM SYSTEM—U. S. Eng., Wright Bldg., Sacramento, fire and air raid alarm sys., Butte Co., to E. L. French, 1926 O St., Sacramento, under **$50,000.**

†**California**—FIRE WALLS—U. S. Eng., 74 New Montgomery St., San Francisco, encasing fire walls, adjoining piles, to Emsco Concrete Cutting Corp., 147 11 St., San Francisco. Awarded 9/4.

†**California** — FILLING STATION — U. S. Eng., 74 New Montgomery St., San Francisco, electrical work for filling station, to Lynch & Scott Electric Co., 2080 Sutter St., San Francisco. CD 9/8—ENR 9/10, under CA.

†**California**—FIRING RANGES—U. S. Eng., 74 New Montgomery St., San Francisco, firing ranges, to Coast Counties Constr. Co., 150 Towt St., Salinas. Awarded 9/8.

†**California**—GASOLINE FUELING SYSTEM—U. S. Eng., Wright Bldg., Sacramento, gasoline fueling sys., San Joaquin Co., to Aqua Systems, Inc., 285 Gerard Ave., New York, N. Y., under **$50,000.**

California — IMPROVEMENTS — Industrial Company, imprvs., traveling shelters, to D. W. Nicholson, 1701 San Leandro Blvd., San Leandro; outfitting dock, to Salih Bros., 988 Market St., San Francisco. L. H. Nishkian, 155 Sansome St., San Francisco, engr.

†**California** — IMPROVEMENTS — Industrial Company, imprvs., crane runways, welding slab, etc., to MacDonald & Kahn Co., Inc., 200 Financial Center Bldg., San Francisco; wharf, driving steel sheet piling, to Healey-Tibbetts Constr. Co., 1100 Evans Ave., San Francisco. Federally financed.

California — IMPROVEMENTS — Industrial Company, imprvs., to M. J. King, 231 Franklin St., San Francisco.

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., roads, driveways, parking areas, to Calowell Constr. Co., 1835 E. Wardlow Rd., Long Beach, under **$500,000.** Awarded 9/7.

★†**California** — IMPROVEMENTS — U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., bldgs., No. 218, to Jacobson & Wikholm, 1614 Wellington Rd., Los Angeles, over **$1,000,000.** Awarded 9/7. CD 8/25—ENR 8/27.

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., to R. A. Couyes & R. O. Dixson, 3901 Midford St., Los Angeles, under **$500,000.** Awarded 9/5.

†**California**—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., to Macco Constr. Co., 815 Paramount Blvd., Clearwater. Awarded 9/8.

†**California**—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., drainage facilities, to McGuire & Hester, 796 66 Ave., Oakland. Awarded 9/8.

†**California**—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., housing, to Arthur McLellan & Bessett, 941 S. Claremont St., San Mateo. Awarded 9/10.

†**California**—LIGHTING FACILITIES—U. S. Eng., 74 New Montgomery St., San Francisco, power and lighting facilities, to American Electric Constr. Co., 462 Bryant St., San Francisco. Awarded 9/11.

†**California**—LIGHTING [illegible] Eng., 751 S. Figueroa St., L[illegible] ing sys., No. 179, to Harry [illegible] Fernando Rd., Los Angeles. Bids 8/17, awarded 9/7. $50,000.

†**California**—LINE EXT[illegible] Eng., 751 S. Figueroa St., L[illegible] exten., pole service, San B[illegible] Calif. Electric Power Co. [illegible] $50,000.

†**California**—MOTOR REPA[illegible] ACILITIES etc.— U. S. Eng., 74 New Mo[illegible] Francisco, motor repair and [illegible] ties, to Howson Bros., Gilroy.

†**California**—MOTOR TRAN[illegible] TIES—U. S. Eng., 74 New [illegible] San Francisco, electrical w[illegible] transport facilities, to Tice [illegible] 500 Del Monte Ave., Monterey [illegible] 9/10, under CA.

†**California**—PAINTING—U. S [illegible] Bldg., Sacramento, painting, K[illegible] Nixon, Carl Holst, and Mar[illegible] N. Calaveras St., Fresno, under $50,000.

†**California**—PAINTING—U. S [illegible] Bldg., Sacramento, painting [illegible] Sheldon Oil Co., Suisun, $50,000-$100,000.

†**California** — RAILROAD HOLD YARD—U. S. Eng., 74 New Montgomery St. San Francisco, railroad hold yard to A. D. Schader, 144 Spear St., San Francisco. Awarded 9/3.

†**California**—RAILROAD SPUR [illegible] S. Eng., Wright Bldg., Sacramento, addn. spur trackage, San Joaquin Co., to R. [illegible] 509 E. Weber St., Stockton, under $50,000.

†**California**—STOCKADE—U. S. Eng., 74 New Montgomery St., San Francisco, electrical work for stockade, to Tice Electrical Shop, 500 Del Monte Ave., Monterey. CD 9/3—ENR 9/10, under CA.

★**Calif., Fields Landing**—DRY DOCK FUELING STATION, etc.—Eureka Shipbuilders, Inc., H. M. Child, pres., Fields Landing, dry dock, fueling station, plant, incl. wharves, bldgs. Owner builds. CD 8/20—ENR 8/27.

Colorado—GASOLINE STORAGE TANKS—U. S. Eng., c/o Postmaster, Denver, gasoline storage tanks, Denver Co., to J. E. Phillips, Aurora, under **$50,000.**

†**Colorado**—SPRINKLER SYSTEM—U. S. Eng., Albuquerque, N. M., automatic sprinkler sys., Prowers Co., to The Automatic Sprinkler Co. of America, Brittain St., Youngstown, O., under **$50,000.**

†**Colorado**—WOOD CONTROL TOWER—U. S. Eng., c/o Postmaster, Denver, wood control tower, Denver Co., to E. B. Jones, Jr., Denver, under **$50,000.**

†**Connecticut** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., electrical distr. sys., New London Co., to Brady Electrical Co., Inc., 480 Second St., Fall River, Mass., under **$50,000.**

Conn., Hartford—ELECTRICAL INSTALLATION—Terry Steam Turbine Co., 874 Windsor St., electrical installation and changes, distr. sys., and new service switchboard, to Perry Electric Co., 448 New Britain Ave., **$9,470.**

†**Florida**—AIR CONDITIONING SYSTEM—U. S. Eng., Courthouse & Postoffice, Jacksonville, air conditioning sys., Highlands Co., to W. G. Haggerty, Inc., 805 Morgan St., Tampa, under **$50,000.**

†**Florida**—AIR CONDITIONING SYSTEM—U. S. Eng., Courthouse & Postoffice, Jacksonville, air conditioning sys., Jackson Co., to C. W. Hughes, Inc., 307 Park St., Jacksonville, under **$50,000.**

★†**Florida**—CLEARING, etc.—U. S. Eng., Courthouse and Postoffice, Jacksonville, clearing, grubbing, grading, drainage, paving runway, taxiways, hardstandings, and runway exten., Osceola Co., to Hubbard Constr. Co., Orlando, **$500,000-$1,000,000.**

†**Florida**—CONSTRUCTION—U. S. Eng., Courthouse & Postoffice, Jacksonville, misc. construction, Hillsborough Co., to Cone Bros. Contg. Co., Caesar and Cumberland Aves., Tampa, under **$50,000.**

†**Florida**—CONSTRUCTION—U. S. Eng., Courthouse and Postoffice, Jacksonville, misc. construction, Lee Co., to Moody Bros. Plumbing and Heating Co., Fort Myers, under **$50,000.**

†**Florida**—CONSTRUCTION—U. S. Eng., Courthouse and Postoffice, Jacksonville, misc. construction, Palm Beach Co., to Southeastern Constr. Co. of Florida, Miami, under $50,000.

†**Florida** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Courthouse and Postoffice, Jacksonville, electrical distr. sys., Marion Co., to Enlow-Brice Contractors, Live Oak, under **$50,000.**

†**Florida** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Courthouse & Postoffice, Jacksonville, electrical distr. sys., Hillsborough Co., to H. B. Barvin Electric Co., Orlando, under **$50,000.**

†**Florida**—GAS LINES—U. S. Eng., Courthouse and Postoffice, Jacksonville, gas and water lines, Sarasota Co., to J. H. Green Plumbing and Equipment Corp., Sarasota, under **$50,000.**

†**Florida**—PLUMBING—U. S. Eng., Courthouse & Postoffice, Jacksonville, plumbing work, Dade Co., to Lester F. Preu Corp., Miami Beach, under **$50,000.**

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†**Florida**—SPRIGGING, etc.—U. S. Eng., Courthouse & Postoffice, Jacksonville, sprigging, seeding, Jackson Co., to The Island Landscape Co., Inc., Palm Beach. **$100,000-$500,000.**

†**Florida**—STEAM DISTRIBUTION SYSTEM—U. S. Eng., Courthouse & Postoffice, Jacksonville, central steam distr. sys., Dade Co., to Cleary Bros. Constr. Co., West Palm Beach, under **$50,000.**

†**Florida**—STEAM DISTRIBUTION SYSTEM—U. S. Eng., Courthouse and Postoffice, Jacksonville, steam distr. sys. and boiler house, Polk Co., to Orlando Plumbing and Heating Co., Orlando, under **$50,000.**

†**Florida**—TAXIWAYS, etc.—U. S. Eng., Courthouse and Customhouse, Mobile, Ala., grading, paving, drainage, taxiways, hardstandings, Okaloosa Co., to Smith Engineering and Constr. Co., and Noonan Contr. Co., 1001 E Gregory St., Pensacola, **$100,000-$500,000.**

★†**Georgia**—HEATING and VENTILATING SYSTEMS—U. S. Eng., 494 Spring St., N.W., Atlanta, heating and ventilating sys., Cobb Co., to Kerby Saunders, Inc., 330 W. 42 St., New York, N. Y., **$1,000,000-$5,000,000.**

†**Georgia**—LIGHTING SYSTEM—U. S. Eng., 494 Spring St. N.W., Atlanta, temporary lighting sys., Cobb Co., to Cleveland Electric Co., 557 Marietta St. N.W., Atlanta, under **$50,000.**

†**Georgia**—SPRIGGING, etc.—U. S. Eng., Courthouse & Postoffice, Jacksonville, Fla., sprigging, seeding, watering, mowing, Lowndes Co., to Florida Nursery & Landscape Co., Leesburg, Fla., under **$50,000.**

†**Georgia**—TAXIWAYS—U. S. Eng., Courthouse and Postoffice, Jacksonville, Fla., taxiways, Putnam Co., to Coffee Constr. Co., Eastman, under **$50,000.**

†**Georgia**—UTILITIES—U. S. Eng., Courthouse and Postoffice, Jacksonville, Fla., engineer-architect services by Florida Associates, West Palm Beach, utilities, runways, taxiways, etc., Thomas Co.

†**Illinois** — GASOLINE FUELING — U. S. Eng., 612 Federal Bldg., Louisville, Ky., gasoline fueling, Lawrence Co., to Austin M. Snyder, Vincennes, Ind., under **$50,000.**

†**Illinois**—RAILROAD CONSTRUCTION—U. S. Eng., Clock Tower Bldg., Rock Island, railroad construction, Carroll Co., to Deckert & McDowell, 53 W. Jackson Blvd., Chicago, **$100,000-$500,000.**

†**Illinois**—RAILROAD INSPECTION PIT—U. S. Eng., Clock Tower Bldg., Rock Island, railroad inspection pit, Carroll Co., to Savanna Constr. Co., Savanna, under **$50,000.**

†**Illinois**—ROOFING—U. S. Eng., 520 Merchandise Mart, Chicago, roofing, Cook Co., to The Esko Roofing Co., 2651 W. Washington St., Chicago, under **$50,000.**

†**Illinois**—SPRINKLER SYSTEMS—U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., sprinkler sys., Sangamon Co., to Blaw-Knox Constr. Co., Farmers Bldg., Pittsburgh, Pa., under **$50,000.**

†**Illinois**—RUNWAYS, etc.—U. S. Eng., Courthouse & Customhouse, St. Louis, Mo., runway, taxiway, etc., Saint Clair Co., to Townsco Contg. Co., 1704 N. W. 6 St., Oklahoma City, Okla., under **$50,000.**

†**Indiana** — PAINTING — U. S. Eng., 612 Federal Bldg., Louisville, Ky., exterior painting, Bartholomew Co., to Fox Valley Painting Co., Peoria, Ill., under **$50,000.**

†**Iowa**—FENCE—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., fence, Clinton Co., to The American Steel & Wire Co. of New Jersey, Cyclone Fence Div., Waukegan, Ill., under **$50,000.**

†**Iowa**—OIL STORAGE TANK—U. S. Eng., Clock Tower Bldg., Rock Island, Ill., steel fuel oil storage tank, Scott Co., to John Tunnicliff, d.b.a. Tunnicliff Constr. Co. 105 Fillmore St., Davenport, under **$50,000.**

†**Iowa** — RUNWAYS, TAXIWAYS — U. S. Eng., 1609 Jackson St., Omaha, Neb., runways and taxiways, Woodbury Co., to Morse Bros. & Associates, Inc., Sioux City. **$100,000-$500,000.**

†**Kansas** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, N.M., electrical distr. sys., Finney Co., to H. L. Owen Constr. Co., Great Bend, under **$50,000.**

†**Kansas**—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., exten. runways, Leavenworth Co., to Feeney Constr. Co., 7 and Oliver Sts., St. Joseph, Mo., **$100,000-$500,000.**

★†**Kansas**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., bldgs., to Patti-McDonald Constr. Co., 1114 Bway., Kansas City, Mo. Total est. **$1,000,000-$5,000,000.** CD 9/11—ENR 8/20.

★†**Kansas**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., bldgs., to Busboom & Rauh, Salina, est. **$2,000,000.** CD 8/14.

†**Kansas**—LIGHTING SYSTEM—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., night lighting sys., Leavenworth Co., to Utilities Contg. Co., Joplin, Mo., under **$50,000.**

†**Louisiana**—AIR CONDITIONING SYSTEM—U. S. Eng., foot of Prytania St., New Orleans, summer and winter air conditioning sys., Inv. 43-82, to D. Doherty-Sterling, Inc., 3150 Florida St., Baton Rouge. Awarded 9/2.

†**Louisiana** — AERIAL DISTRIBUTION LINES, etc.—U. S. Eng., foot of Prytania St., New Orleans, aerial distr. lines, street lighting, Rapides Co., to M. S. Carroll Co., De Ridder, under **$50,000.**

†**Louisiana**—RAILROAD SPUR—U. S. Eng., foot of Prytania St., New Orleans, railroad spur, Rapides Co., to Texas & Pacific Railroad, 1408 Main St., Dallas, Tex., under **$50,000.**

★†**Louisiana**—RUNWAYS, etc.—U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., runways, taxiways, hardstandings, Grant Parish, to The Jones Bros., 1031 N. Court St., Montgomery, Ala., **$1,000,000-$5,000,000.**

†**Louisiana**—SITE IMPROVEMENTS—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., bids soon site imprvs., La 16034. S. G. Weiner, Commercial Natl. Bank Bldg., Shreveport, archt.

†**Louisiana**—SPRINKLER SYSTEM—U. S. Eng., Postoffice and Courthouse, Vicksburg, Miss., sprinkler sys., Ouachita Co., to Texas Automatic Sprinkler Co., 2339 Summer St., Dallas, Tex., under **$50,000.**

†**Maine**—LIGHTING SYSTEM—U. S. Eng., Park Square Bldg., Boston, Mass., night lighting sys., Penobscot Co., to Kenworthy & Taylor, Inc., Everett, Mass., under **$50,000.**

†**Maine**—UTILITIES etc.—Farm Security Admin., A. Kopp, bus. mgr., 17 Brief Ave., Upper Darby, Pa., utilities, roads, sidewalks, etc., FSAC 1-10, to W. H. Hinman, Inc., North Anson, **$74,444;** electrical distr. sys., to Samuel Aveto & Co., 40 Preble St., Portland, **$6,192.** CD 8/25—ENR 8/27.

†**Maine**—WHARF—U. S. Eng., Park Square Bldg., Boston, Mass., wharf, Inv. 175-43-Neg 57, to Whitman & Simpson, Inc., 283 Water St., Augusta. Est. over **$25,000.** Bids 9/1. CD 9/8—ENR 9/10.

†**Maryland**—CONSTRUCTION—U. S. Eng., Standard Oil Bldg., Baltimore, misc. construction, Harford Co., to Conrad J. Langfelder & Son, 908 S. Wolfe St., Baltimore, under **$50,000.**

†**Maryland**—PIPELINE—U. S. Eng., Standard Oil Bldg., Baltimore, pipeline, Harford Co., to Malone & Sons, Lancaster, Pa., **$100,000-$500,000.**

†**Massachusetts**—AIR CONDITIONING SYSTEM—U. S. Eng., Park Square Bldg., Boston, air conditioning sys., Inv. 175-43-Neg 47, to Boston Filter Co., Inc., 43 Harvard Square, Charlestown. Est. under **$50,000.** Bids 8/31.

†**Massachusetts** — CONCRETE CONSTRUCTION—U. S. Eng., Park Square Bldg., Boston, electrical work for concrete constr., Inv. 175-43-Neg 55, to Federal Electric Constr. Co., 95 Harvey St., Cambridge. CD 9/9—ENR 9/17.

†**Massachusetts** — CONSTRUCTION — U. S. Eng., Park Square Bldg., Boston, concrete, steel construction, Plymouth Co., to Julius J. Conviser, 333 Washington St., Boston. **$100,000-$500,000.**

Massachusetts—ELECTRICAL WORK—Industrial Company, electrical work for bldg., to J. & M. Brown Electric Co., Inc., 737 Center St., Jamaica Plain. CD 8/27—ENR 7/31, under CA.

†**Massachusetts**—FUELING SYSTEM—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., fueling sys., Hampden Co., to Aqua Systems, Inc., 385 Gerard Ave., New York, N. Y., under **$50,000.**

†**Massachusetts**—GAS SYSTEM—U. S. Eng., Park Square Bldg., Boston, gas sys., Inv. 175-43-Neg. 61, to Frankini Constr. Co., 30 Mystic Ave., Medford. Est. over **$25,000.** Bids 9/10.

†**Massachusetts**—GREASING RACK, etc.—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., greasing and inspection rack, Bristol Co., to Sullivan-Foster, Inc., New Bedford, under **$50,000.**

★†**Michigan**—CLEARING, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, clearing, grubbing, excavating, grading, Saginaw Co., to Cheney-Wright Co., Williamston, **$1,000,000-$5,000,000.**

★†**Michigan**—ELECTRICAL SYSTEM—U. S. Eng., 700 Union Guardian Bldg., Detroit, addn., revision electrical sys., Wayne Co., to W. D. Gale, Inc., 7145 Tireman Ave., Detroit, under **$1,000,000.**

†**Michigan**—RAILROAD SPURS—U. S. Eng., 700 Union Guardian Bldg., Detroit, railroad spurs, Chippewa Co., to Owen Ames Kimball Co., 38 Pearl St., N. W., Grand Rapids, under **$50,000.**

★†**Michigan**—STEAM DISTRIBUTION SYSTEM, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, steam distr. sys., installing heating sys., Chippewa Co., to E. Korkoske, Gladwin, under **$1,000,000.**

★†**Michigan**—TEST TRACK, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, test track, railroad track, bldgs., grading, etc., Genesee Co., to Christman Co., Lansing, under **$1,000,000.**

†**Mississippi**—IMPROVEMENTS—U. S. Eng., Postoffice and Courthouse, Vicksburg, imprvs., to Burdine Constr. Co., Shaw. Est. **$50,000-$100,000.**

★†**Missouri**—IMPROVEMENTS—U. S. Eng., 601 Davidson Bldg., Kansas City, Mo., imprvs., grading, to Harper Constr. Co., Great Bend, Kan.***heating, plumbing, to Industrial Heating & Plumbing Co., 103 S. 4 St., St. Joseph***paving, to Stephens-Brown Constr. Co., RMA Bldg., Kansas City, Mo. and Perry McGlone Constr. Co., City Natl. Bank Bldg., Kansas City, Mo.***Total est. **$2,000,000.** CD 8/25—ENR 8/27.

★†**Missouri**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., imprvs., Inv. 1092-43-53F, to Eller & Olsen Asphalt Co., 32 Ave. N., Nashville, Tenn. Est. under **$1,000,000.**

†**Missouri**—TEST TRACK—U. S. Eng., 10 E. 16 St., Kansas City, Mo., vehicular test track, appurtenances, Wyandotte Co., to L. M. Bauer, Detroit, Mich., under **$50,000.**

†**Montana**—NIGHT LIGHTING SYSTEM—U. S. Eng., Administration Bldg., Fort Peck, night lighting sys., Fergus Co., to Henry W. Miller Electric Co., Insurance Bldg., Omaha, Neb., under **$50,000.**

†**Nebraska** — CONSTRUCTION — U. S. Eng., 1709 Jackson St., Omaha, misc. construction, Box Butte Co., to Busboom & Rauh, Salinas, Kan., under **$50,000.**

†**Nebraska**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 1709 Jackson St., Omaha, electrical distr. sys., Brown Co., to Clifton Engineering Co., Three Rivers, Mich., under **$50,000.**

★†**Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, air force installation, Brown Co., to Frankamp Parker Co., Omaha, and W. L. Groesbeck & Co., Des Moines, Ia. Over **$2,000,000.** Leo A. Daly, Insurance Bldg., H. S. Nixon, Grain Exchange Bldg., and E. F. Adams, 1227 S. 52 St., Omaha, archts. and engrs.

★†**Nebraska**—RUNWAYS, etc.—U. S. Eng., 1709 Jackson St., Omaha, runways, taxiways, aprons, roads, streets, grading, Scotts Bluff Co., to J. A. Terteling & Sons, Robert Noble Bldg., Boise, Idaho, **$500,000-$1,000,000.**

†**Nebraska**—SEEDING—U. S. Eng., 1709 Jackson St., Omaha, seeding, to Warren Marshall, Elm Creek, Earl Carlson, and Henry Peterson, Loomis. Est. under **$50,000.**

†**Nevada** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., electrical distr. sys., sheds, to General Constr. Co. & J. Walter Johnson, 5295 Hollywood Blvd., Los Angeles, Calif., **$100,000-$500,000.** Awarded 9/8.

†**Nevada**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., imprvs., alterations, addns., to H. O. Bauerle, 8948 Ellis Ave., Los Angeles, Calif. Est. under **$50,000.** Awarded 9/1.

Nev., Las Vegas—AIRFIELD—Alamo Airways, G. Crockett, mgr., Las Vegas, airfield, 460 acre site, 5 mi. south of Hy. 91, day labor.

†**New Hampshire and Maine**—PAINTING—U. S. Eng., Park Square Bldg., Boston, Mass., painting, Rockingham Co., N. H., and York Co., Me., to M. L. McDonald Co., Watertown, Mass., under **$50,000.**

N. H., Concord—AIRPORT—City, M. Potter, chn. Aeronautic Comm., electrical work for airport administration bldg., to Capitol Electric Supply Co., 18 Pleasant St. Foster & Bamford, Inc., 18 N. Main St., engrs.

†**New Jersey**—CHIMNEY—U. S. Eng., 6 and Walnut Sts., Phila., Pa., chimney for bldg., to Frederick Page Contg. Co., 45 E. 17 St., New York, N. Y., under **$50,000.**

†**New Jersey**—CONSTRUCTION—U. S. Eng., 120 Wall St., New York, N. Y., misc. construction, to Arthur Vennerl Co., 259 N. Broad St., Elizabeth, under **$50,000.**

†**New Jersey**—CONSTRUCTION—U. S. Eng., 120 Wall St., New York, N. Y., miscellaneous construction, Essex Co., to Wallace & Tiernan Co., Inc., 11 Mill St., Belleville, Newark, under **$50,000.**

†**New Jersey**—LANDSCAPING—U. S. Eng., 120 Wall St., New York, landscaping, Passaic Co., to Meadow Brook Nurseries, 28 Englewood Ave., Englewood, **$100,000-$500,000.**

†**New Jersey** — TOPSOILING, etc. — U. S. Eng., 120 Wall St., New York, N. Y., topsoiling, seeding, Essex Co., to Meadow Brook Nurseries, Inc., Englewood. **$100,000-$500,000.**

†**New Jersey**—WATERPROOFING—U. S. Eng., 120 Wall St., New York, waterproofing concrete structures, Monmouth Co., to Green Const. Co., 32 S. Oxford St., Brooklyn, N. Y., under **$50,000.**

†**New Jersey** — WATERPROOFING — U. S. Eng., 120 Wall St., New York, N. Y., waterproofing concrete structures, to General Waterproofing Co., 46 Bayard St., New Brunswick, under **$50,000.**

†**New Mexico and Texas**—PAINTING—U. S. Eng., Albuquerque, N. M., painting, various counties, New Mexico and Texas, to W. H. Wood, 1504 Hardouin St., Austin, **$100,000-$500,000.**

†**New Mexico**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, electrical distr. sys., McKinley Co., to L. W. Irick Electric Co., Gallup, under **$50,000.** CD 9/8—ENR 9/10.

†**New Mexico**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, electrical distr. sys., to Prokosh Electric Co., Santa Fe. Est. under **$500,000.**

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†New Mexico—FIRE ALARM SYSTEM—U. S. Eng., Albuquerque, automatic fire alarm sys., Santa Fe Co., to Dawson-Yearout Electric Co., Albuquerque, under **$50,000.**

†New Mexico—GASOLINE FUELING SYSTEM, etc.—U. S. Eng., Albuquerque, gasoline fueling sys., Otero Co., to R. H. Fulton & Co., Lubbock, Tex., under **$50,000;** electrical distr. sys., Otero Co., to Scotty Electric Works, Albuquerque, under **$50,000.**

★**†New Mexico**—IMPROVEMENTS—U. S. Eng., Albuquerque, imprvs., grading, etc., to Nolan Bros. and C. A. Wagner Constr. Co. Inc., 742 Metropolitan Bldg., Minneapolis, Minn. **$1,000,000-$5,000,000.** Bids 8/27, awarded 8/31.

†New Mexico—GASOLINE STORAGE SYSTEM, etc.—U. S. Eng., Albuquerque, a.c. gasoline and fuel sys., storage facilities and dispensing and pump. sta., to Bradbury & Marchant, Albuquerque, under **$50,000.** Bids about 8/18. CD 8/11.

†New York—CLEARING, etc.—U. S. Eng., 960 Ellicott Sq. Bldg., Buffalo, clearing, grubbing, grading, Niagara Co., to A. R. Menzies, 23 Villa Ave., Buffalo, **$100,000-$500,000.**

†New York—LIGHTING SYSTEM—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, night lighting sys., Jefferson Co., to Barber Electric Co. Inc., 210 State St., Watertown, under **$50,000.**

†New York—ELECTRICAL WORK—U. S. Eng., 960 Ellicott Square Bldg., Buffalo, electrical work, Erie Co., to Lang Electric Co. Inc., 267 Oak St., Buffalo, **$100,000-$500,000.**

★**†New York**—CLEARING, etc.—U. S. Eng., 120 Wall St., New York, clearing, grading, grubbing, Orange Co., to John Arborio, Inc., W. Cedar St., Poughkeepsie. **$500,000-$1,000,000.**

†New York—FIRE ALARM SYSTEM—U. S. Eng., Chimes Bldg., Syracuse, fire alarm sys., Albany Co., to E. G. May, Voorheesville, under **$50,000.**

†New York — MODERNIZING FUELING SYSTEM, etc.—U. S. Eng., 120 Wall St., New York, modernizing Aqua sys. (gasoline fueling sys.), Nassau Co., to Afco Engineering Corp., 147 Fulton St., New York, under **$50,000;** renovation and adjustment refrigeration facilities, Nassau Co., to Cooper-Cabaret Co., 289 Post Ave., Westbury, under **$50,000.**

★**†New York**—RUNWAYS, etc.—U. S. Eng., 120 Wall St., New York, runways, taxiways and hardstandings, Orange Co., to Garofano Constr. Co., 730 S. Columbus Ave., Mount Vernon. **$500,000-$1,000,000.**

†North Carolina — AIR CONDITIONING — U. S. Eng., 33 Customhouse, Charleston, S. C., air conditioning sys., Mecklenburg Co., to Page & Co., 219 S. Mint St., Charlotte, under **$50,000.**

†North Carolina—CLEARING, etc.—U. S. Eng., 308 Customhouse, Wilmington, clearing, grubbing, New Hanover Co., to F. D. Cline, Fairview Rd., Raleigh. **$50,000-$100,000.**

†North Carolina—GASOLINE OPERATING SYSTEM, etc.—U. S. Eng., 308 Customhouse, Wilmington, gasoline operating sys. and lubricating oil distr., Wayne Co., to J. L. Powers, Bennettesville, S. C. **$100,000-$500,000.**

†North Carolina—ROOF REPAIR, etc.—U. S. Eng., 33 Customhouse, Charleston, S. C., roof repair and coating, Union Co., to A. C. Collins, Charlotte, under **$50,000.**

†North Carolina—SPRINKLER SYSTEM—U. S. Eng., 33 Customhouse, Charleston, S. C., sprinkler sys. addn., Mecklenburg Co., to Grinnell Co. Inc., 1431 W. Morehead St., Charlotte, under **$50,000.**

†North Carolina—SPUR TRACKS, etc.—U. S. Eng., 308 Customhouse, Wilmington, spur tracks, to Grannis, Higgins, Thompson & McDevitt Co., Builders Bldg., Charlotte, under **$50,000;** tower foundations, to Eure Bros., Beaufort, under **$50,000,** both in New Hanover Co.

†North Carolina—TOWER FOUNDATIONS—U. S. Eng., 308 Customhouse, Wilmington, tower foundations, Carteret Co., to Eure Bros., Beaufort, under **$50,000.**

★**†Ohio**—CONSTRUCTION—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., design, fabricate and erect on foundation built by others, Cuyahoga Co., to Timber Structures, Inc., P. O. Box 3782, Portland, Ore., under **$1,000,000.**

★**†Ohio**—ELECTRICAL WORK—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., electrical work, Cuyahoga Co., to Gustav Hirsch Organization, 310 W. Broad St., Columbus. **$500,000-$1,000,000.**

†Ohio—OIL SYSTEM—U. S. Eng., Wright Field, Dayton, lubrication oil sys., Greene Co., to Franke Burke & Son, 35 S. Dearborn St., Chicago, Ill., under **$50,000.**

†Ohio—REPAIRING WALLS—U. S. Eng., 232 N. High St., Columbus, repairing walls, Franklin Co., to Trapp-Carroll Co., 255 E. Broad St., Columbus. **$50,000-$100,000.**

★**†Ohio**—UTILITIES, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., utilities, heating sys., remodeling, Ottawa Co., to A. C. Kobessen, 1010 St. Clair St., Cleveland, under **$1,000,000.**

†Oklahoma—ELECTRICAL SYSTEM, etc.—U. S. Eng., 231 W. Main St., Denison, Tex., electrical sys., fire alarm and sprinkler sys., to Rockwood Sprinkler Co., Audubon Bldg., New Orleans, La., under **$50,000.**

†Oklahoma—HEATING FACILITIES—U. S. Eng., 416 Wright Bldg., Tulsa, heating facilities, Garfield Co., to American Plumbing & Heating Co., 419 E. 5 St., Tulsa, under **$50,000.**

†Oklahoma—RECONSTRUCTING TANKS—U. S. Eng., 416 Wright Bldg., Tulsa, reconstructing used storage tanks, Oklahoma Co., to Welded Products Co., 1700 NW 5 St., Oklahoma City, under **$50,000.**

†Oklahoma—WALLS, etc.—U. S. Eng., 416 Wright Bldg., Tulsa, asbestos walls, clerestory, louvres and ventilating units, Oklahoma Co., to Truscon Steel Co., 1315 Albert St. Exten, Youngstown, O., **$100,000-$500,000.**

†Oregon — GASOLINE STORAGE — U. S. Eng., Pittock Blk, S.W., 10 Ave. and Washington St., Portland, gasoline storage and fueling sys., Benton Co., to Deluca & Sons, Inc., 1745 Filbert St., San Francisco, Calif. **$50,000-$100,000.**

†Oregon—GASOLINE STORAGE, etc.—U. S. Eng., Pittock Blk., gasoline storage and fueling sys., Marion Co., to T. L. Kuhns Co., Salem, under **$50,000.**

†Pennsylvania — ELECTRICAL WORK — U. S. Eng., 6 and Walnut Sts., Phila., electrical work, Philadelphia Co., to Philadelphia Electric Co., 1000 Chestunt St., Phila., under **$50,000.**

†Pennsylvania—LININGS—U. S. Eng., 925 New Federal Bldg., Pittsburgh, linings for safety chutes, Crawford Co., to A. A. Samuels Sheet Metal Co., 222 Steel St., Youngstown, O., under **$50,000.**

★**†Pa., Phila.**—ELECTRICAL DISTRIBUTION SYSTEM—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave, N.W., Wash., D. C., exten. electrical distr. sys., NOY 5376, to Herman Mayer Co., Inc., K and Venango Sts., Phila. **$784,000.** Awarded 8/21.

†Pennsylvania—SEEDING—U. S. Eng., 6 and Walnut Sts., Phila., seeding, Philadelphia Co., to Toomey & Flynn, Bala-Cynwyd, under **$50,000.**

†Pennsylvania—SOIL STABILIZATION, etc.—U. S. Eng., Standard Oil Bldg., Baltimore, Md., soil stabilization, miscellaneous construction, Franklin Co., to Eidson Landscaping Co., Bala. **$100,000-$500,000.**

†South Carolina—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 33 Customhouse, Charleston, exten. electrical distr. sys., Horry Co., to Broadway Maintenance Co., Atlanta, Ga., under **$50,000.**

†South Carolina—FENCE—U. S. Eng., 33 Customhouse, Charleston, fence, Harry Co., to Pennell & Harley, Inc., Spartanburg, under **$50,000.**

★**†South Carolina**—GRADING, etc.—U. S. Eng., 33 Customhouse, Charleston, grading, draining runways, aprons, taxiways, stubs, etc., also paving, runways, aprons, taxiways, stubs, hardstands, all Charleston Co., to H. E. Wolfe, St. Augustine, Fla. **$500,000-$1,000,000** each project.

†South Carolina—IMPROVEMENTS—U. S. Eng., Greenville, imprvs., to P. S. Cecil, Spartanburg.

†South Carolina—IMPROVEMENTS—U. S. Eng., Greenville, imprvs., to P. S. Cecil, Spartanburg.

†South Carolina—RAILROAD SPUR TRACK—U. S. Eng., 33 Customhouse, Charleston, railroad spur track, Richland Co., to Boyle Constr. Co., Sumter. **$50,000-$100,000.**

†South Carolina—RAILROAD SPUR TRACK—U. S. Eng. Office, Sumter, railroad spur track, to Plowden & Roberts, Columbia, under **$50,000.** Bids 9/2.

†South Dakota — IMPROVEMENTS — U. S. Eng., 1709 Jackson St., Omaha, Neb., imprvs., insulating pipes and ceilings, to S. Wicklund, 336 N. Covell St. and E. Norllie, 900 S. Lake St., Sioux Falls, under **$50,000.**

†South Dakota—MARKING RUNWAYS, etc.—U. S. Eng., 1709 Jackson St., Omaha, marking runways, taxiways and aprons, Minnehaha Co., to Townsco Contg. Co., 1704 N.W. 6 St., Oklahoma City, Okla., under **$50,000.**

†South Dakota — RAILROAD, etc. — U. S. Eng., Administration Bldg., Fort Peck, Mont., railroad and railroad trestle bridge, Fall River Co., to Peter Kiewit Sons Co., 1024 Omaha Natl. Bank Bldg., Omaha, Neb. **$100,000-$500,000.**

†South Dakota—SEEDING—U. S. Eng., 1709 Jackson St., Omaha, Neb., seeding, Davison Co., to F. L. McMahon, Mitchell, under **$50,000.**

†Tennessee — ELECTRIC DISTRIBUTION, etc.—U. S. Eng., 494 Spring St. N.W., Atlanta, Ga., electric distr. and street lighting sys., Henry Co., to Edenfield Electric Co., 517-8 Ave. S., Nashville, under **$50,000.**

★**†Tennessee**—GRADING, etc.—U. S. Eng., P. O. Box 97, Memphis, grading, drainage, to Forcum James Co., Dyersburg, **$100,000-$500,000***** grading, paving runways, taxiways, parking apron, to Memphis Stone & Gravel Co., Exchange Bldg., Memphis, **$500,000-$1,000,000***** wells with motor driven pump equip., to Layne Central Co., 1993 Chelsea St., Memphis, under **$50,000***** water distr. sys., to R. J. Reid Contg. Co., 2109 N. 14 St., Birmingham, Ala., **$100,000-$500,000***** sanitary sewerage sys., to W. L. Sharpe Contg. Co., Columbian Mutual Trust [illegible] under **$50,000,** all foregoing [illegible]

★**†Texas**—APRON EXTENS[illegible] Eng., San Antonio, apron [illegible] crete, steel construction, Bexa[illegible] Briggs & Co. and M. B. Kil[illegible] San Antonio. **$500,000-$1,000,000**

†Texas—AUTOMATIC SPR[illegible] TEM—U. S. Eng., Albuquerq[illegible] matic sprinkler sys., El Pas[illegible] McKee, 1918 Texas St., El Pas[illegible] $50,000

★**†Texas**—CLEARING, etc.—[illegible] St. and Avenue F, Galv[illegible] grubbing, grading, Victoria C[illegible] Constr. Co., Marshall, **$500,000-$[illegible]** 000,000

†Texas—CONSTRUCTION—[illegible] buquerque, N. M., miscellaneo[illegible] El Paso Co., to R. E. McKee, El Paso, under **$50,000.**

†Texas — ELECTRICAL [illegible] SYSTEM—U. S. Eng., Albuq[illegible] electric distr. and street light[illegible] Co., to Taylor Electric Co., Big [illegible] $50,000.

†Texas — ELECTRICAL [illegible] SYSTEM—U. S. Eng., Fort Sam [illegible] door overhead electrical distr. [illegible] 308, to Eugene Ashe Electric [illegible] St., Fort Worth, under **$50,000.**

†Texas — ELECTRICAL [illegible] SYSTEM—U. S. Eng., 25 St. and [illegible] Galveston, electrical distr. sys., Limestone Co., to Taylor Constr. Co., Taylor, under $50,000

†Texas — ELECTRICAL [illegible] SYSTEM—U. S. Eng., San Antonio, electrical distr. sys., Matagorda Co., to Eugene Ashe Electric Co., 415 Jones St., Fort Worth, under **$50,000.** CD 8/26.

†Texas—GAS DISTRIBUTION SYSTEM, etc.—U. S. Eng., 25 St. and Avenue F, Galveston, gas, water, sewer distr. sys., Limestone Co., to Gayle Bros., Houston. **$100,000-$500,000**

†Texas—GASOLINE SYSTEM—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., gasoline sys., Dallam Co., to Flotation Systems, Inc., 4[illegible] Goodwin Ave., Los Angeles, Calif., under **$50,000.**

†Texas—GASOLINE FUELING SYSTEM—U. S. Eng., Fort Sam Houston, gasoline fueling sys., facilities, Spec. 42-88, to Aqua Systems, Inc., 3611 Parry St., Dallas, under **$50,000.** CD 6/9—ENR 6/11.

★**†Texas**—IMPROVEMENTS—U. S. Eng., Fort Sam Houston, imprvs., runways, aprons, asphalt and concrete, Spec. 42-231 (A2-1), to Cage Bros., Bishop, and Floyd & Malcolm, Abilene, over **$1,000,000.** CD 8/4 and 9/10—ENR 9/10, under LB.

★**†Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, imprvs., bldgs., to Carvel Constr. Co. and A. Buchanan, Alamo Bldg., San Antonio, **$1,000,000-$5,000,000***** bldgs., to Younger Engineering Co., 1[illegible] Milam Bldg., San Antonio, **$100,000-$500,000***** roads, streets, railroad grading, to Globe Constr. Co., Houston, **$100,000-$500,000.** Bids 9/1, awarded 9/9. CD 8/19—ENR 9/[illegible]

†Texas—PARKING AREAS—U. S. Eng., 25 St. and Avenue F, Galveston, parking areas, McLennan Co., to O'Neal Constr. Co., Construction Bldg., Dallas, under **$50,030.**

†Texas—RAILROAD TRACK—U. S. Eng., 25 St. and Avenue F, Galveston, railroad track, Harris Co., to Wm. A. Smith Constr. Co., Inc., 301 Gregg St., Houston, under **$50,000.**

†Texas—RELOCATING POWER LINE—U. S. Eng., 231 W. Main St., Denison, relocating power line, Wichita Co., to Texas Electric Service Co., Wichita Falls, under **$50,000.**

†Texas—UNDERGROUND UTILITIES, etc.—U. S. Eng., Fort Sam Houston, underground utilities, Spec. 42-360, to Truehart & Caldwell, 308 Builders Exchange Bldg., San Antonio, under **$50,000;** street surfacing, Spec. 42-355 (A 2-2, A2-3 and A3-1), to A. McNeel, 207 Builders Exchange Bldg., San Antonio, under **$100,000.** Bids about 9/14. CD 9/10.

†Texas — UNDERGROUND UTILITIES — U. S. Eng., Fort Sam Houston, installing addnl. underground utilities, Spec. 42-309, to Anderson Plumbing & Heating Co., Brownsville, under **$50,000.** Bids 8/24. CD 8/20.

†Texas — UNDERGROUND UTILITIES — U. S. Eng., Fort Sam Houston, underground utilities, Spec. 42-320 part, to McClung & Stanley, 4206 Birchman St., Fort Worth, under **$50,000.**

†Utah—FIRE ALARM SYSTEM—U. S. Eng., 32 Exchange Pl., Salt Lake City, automatic fire alarm sys., to American District Telegraph Co., 155 6 Ave., New York, N. Y., under **$50,000.**

†Utah—FIRE ALARM SYSTEM—U. S. Eng., 32 Exchange Pl., Salt Lake City, automatic fire alarm sys., Tooele Co., to American District Telegraph Co., 155 6 Ave., New York, N. Y., under **$50,000.**

†Utah—FUELING SYSTEM—U. S. Eng., 32 Exchange Pl., Salt Lake City, installing a.c. fueling sys., to Harrison & Dorman, 224 Terminal Bldg., Salt Lake City, under **$100,000.** Bids 8/24.

†Utah—IMPROVEMENTS—U. S. Eng., 32 Exchange Pl., Salt Lake City, furnishing, hauling and spreading gravel for runways, to V. Newman, Salt Lake City, **$100,000-$500,000.**

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†**Utah**—OILING, etc.—U. S. Eng., 32 Exchange Pl., Salt Lake City, oiling, surfacing runway, Tooele Co., to V. W. Lawrence, Grantsville, under **$50,000.**

†**Utah, Delta**—AIRPORT—Civil Aeronautics Admin., Santa Monica, Calif., airport, to W. Clyde Co., Springville, approx. **$300,000.** Bids 8/28.

†**Virginia**—CONSTRUCTION—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, miscellaneous construction, Elizabeth City County, to F. J. Gannaway, 7460 North Shore Rd., Norfolk, under **$50,000.**

†**Virginia**—PAINTING—U. S. Eng., 415 P. O. and Court House Bldg., Norfolk, painting, Princess Anne Co., to Paint Products Co., Newport News, under **$50,000.**

†**Virginia**—PAINTING, etc.—U. S. Eng., 415 P. O. & Court House Bldg., Norfolk, painting, Elizabeth City Co., to R. P. Paoli & Co., Money Point, Norfolk, under **$50,000.**

†**Virginia**—ROOFING, etc.—U. S. Eng., 415 Post Office and Court House Bldg., Norfolk, roofing and sheet metal work, Warwick Co., to N. W. Martin & Bros., 1703 Dock St., Richmond, under **$50,000.**

★†**Washington** — IMPROVEMENTS — U. S. Eng., 810 3 Ave., Seattle, imprvs., to Woodworth & Co. and Macdonald Bldg. Co., 1519 S. Tacoma Way, Tacoma. **$1,000,000-$3,000,000.** CD 8/17—ENR 8/12.

†**Washington** — IMPROVEMENTS — U. S. Eng., 810 3 Ave., Seattle, imprvs., to General Constr. Co., 3840 Iowa St., Seattle, **$50,000-$100,000.**

†**Wisconsin**—APRONS, etc.—U. S. Eng., 408 Federal Bldg., Milwaukee, aprons and appurtenances, Milwaukee Co., to Milwaukee General Constr. Co. Inc. and A. M. Bounsall, 607 W. Mitchell St., Milwaukee, **$100,000-$500,000.**

†**Wisconsin**—ELECTRICAL WORK—U. S. Eng., W. North Bank Dr., Chicago, Ill., imprvs., electrical work, to Langford Electric Co., Inc., 706 Metropolitan Life Bldg., Minneapolis, Minn. and Kelley Constr. Co., Eau Claire. CD 7/21—ENR 7/23 under CA.

†**Wisconsin**—HEATING, etc.—U. S. Eng., 408 Federal Bldg., Milwaukee, heating, ventilating, utility and plumbing equip., Dane Co., to Sprinkmann Sons Corp., 418 N. 2 St., Milwaukee, **$50,000-$100,000.**

†**Wisconsin**—PLUMBING SYSTEM, etc.—U. S. Eng., 407 Federal Bldg., Milwaukee, plumbing and automatic sprinkler sys., Milwaukee Co., to Kuetemeyer Plumbing Co., 783 N. Milwaukee St., Milwaukee, under **$50,000.**

†**Wyoming**—PAINTING—U. S. Eng., 1709 Jackson St., Omaha, Neb., painting, Natrona Co., to Townsco Contg. Co., 1704 N.W. 6 St., Oklahoma City, Okla., under **$50,000.**

†**Wyoming**—PLATFORMS, etc.—U. S. Eng., 1709 Jackson St., Omaha, Neb., wooden platforms, Natrona Co., to L. S. Liesinger, Casper, under **$50,000;** painting, Natrona Co., to John Jourgensen Paints, Inc., Casper, under **$50,000.**

†**Canal Zone**—JIB CRANE—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., jib crane, NOY 5769, to Lakeside Bridge & Steel Co., 32 Willard Ave., Milwaukee, Wis., **$108,750.**

†**Puerto Rico** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., San Juan, electrical distr. sys., Gurabo Co., to E. L. Saldana, San Turce. **$50,000-$100,000.**

B. C., Cassidy—AERODROME—Dpt. Transport, Ottawa, Ont., addnl. aerodrome development, for R.C.A.F. Home War Establishment, incl. grading, stripping, rolling, dragging, smoothing, fertilizing, seeding, hard-surfaced runways, taxistrips, to Storms Contg. Co., 49 Givens St., Toronto, Ont., about **$345,000;** clearing, stumping, grubbing, burning, to W. P. Gibson & Sons, Vancouver, about **$153,000.**

★**N. S., Maitland**—AERODROME—Dpt. National Defense for Air, Ottawa, Ont., addnl. aerodrome development, clearing, grading, smoothing, hardsurfaced runways, taxistrips, etc., to Standard Paving Maritime, Ltd., Capitol Bldg., Halifax, about **$985,000**

Ontario—AIR SCHOOL, etc.—Dpt. National Defense for Air, Ottawa, to Sterling Constr. Co., Ltd., 2492 Sandwich St. E., Windsor, addnl. development E.F.T. School, Windsor, **$176,000,** addnl. temporary accommodation at No. 1 Bombing and Gunnery School, Jarvis, **$102,000,** at No. 4 Bombing & Gunnery School, **$107,000,** sewage disposal plant, **$20,000,** both at Fingal. Grand total **$405,000.** Bids 9/8 and 8/7. CD 7/30 and 9/1—ENR 9/3.

Ont., Camp Borden—AIR TRAINING CENTER—Dpt. National Defense, Ottawa, accommodation, frame barracks, etc., C.A.C. Training Centre, to Hill-Clark-Francis, Ltd., Whitewood Ave., New Liskeard, about **$200,000.** Bids 8/18.

Ont., Kapuskasing — AERODROME — Dpt. Transport, Ottawa, addnl. aerodrome development, clearing, grubbing, hardsurfaced runways, taxistrips, etc., to Dufferin Paving & Crushed Stone, Ltd., Fleet St. W., Toronto, about **$160,000.** CD 3/23—ENR 3/26.

★**Ont., Malton**—AIR SCHOOL, etc.—Dpt. National Defense for Air, Ottawa, addnl. accommodation, frame barracks, storage, mess, officers quarters, No. 1 Air Observers School, to W. C. Brennan Contg. Co., Ltd., 400 Gage Ave., N., Hamilton, **$750,000;** aerodrome development, clearing, grading, hardsurfaced runways, taxistrips, etc., to Godson Constr. Co., Ltd., 203 Richmond St. W., Toronto, about **$130,000.** Bids 7/30. CD 7/23.

Ont., Tillsonburg and **Dufferin**—AERODROMES—Dpt. Transport, Ottawa, addnl. aerodrome development, clearing, grading, smoothing, etc., to Armstrong Bros. Constr. Co., Ltd., Brampton, about **$100,000** and **$70,000** respectively. Bids 7/31. CD 7/28.

Que., Ancienne Lorette—AIRPORT—Dpt. Transport, Ottawa, Ont., addnl. airport development, ploughing, grading, smoothing, etc., to Belmont Constr. Co., Ltd., 679 Belmont St., Montreal, about **$340,000.**

Que., Mont Joli—ACCOMMODATION—Dpt. National Defense for Air, Ottawa, Ont., addnl. accommodation, barrack blocks, officers quarters, mess halls, etc., at No. 9 Bombing and Gunnery School, to Newton Constr. Co., 150 Victoria St., Sherbrooke, Ont. about **$125,000.**

Que., St. Honore—AERODROME—Dpt. National Defense for Air, Ottawa, Ont., addnl. temporary frame accommodation mess halls, barracks, etc., at Relief Intermediate Aerodrome, to L. G. Ogilvie & Co., Ltd., 2228 Walkeley Ave., Montreal, **$125,000.** Bids 8/4. CD 7/20.

Sask., Davidson—AIR SCHOOL—Dpt. National Defense for Air, Ottawa, Ont., addnl. accommodation for E.F.T. School, barracks, mess halls, officers quarters, drill hall, etc., to P. W. Graham & Sons, Ltd., Willard Hotel, Moose Jaw, about **$200,000.** Bids 8/4. CD 7/29.

Yukon Territory, Whitehorse—AIRPORT—Dpt. Transport, Ottawa, Ont., airport development, widening runways, landing strips, clearing, stumping, grubbing, etc., to British-Yukon Navigation Co., Ltd., Vancouver, B. C., about **$320,000.**

LATIN AMERICA

Mexico—Mexican Govt., Scrita. de la Marina, Mexico, D. F., plans concrete breakwater, in Acapulco, Guerrero. $105,000.

PUBLIC BUILDINGS

PROPOSED WORK

†**Alabama**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., rescinded contract war housing. CD 9/2—ENR 9/10, under CA.

†**Arizona**—U. S. Eng., Albuquerque, N. M., engineer-architect services by John Gaw Meem, Hugo Zehner & Associates, Camino Del Monte Sol, Sante Fe, N. M., temporary frame bldgs., water, electric, sewerage sys., Cochise Co.

†**Arkansas**—U. S. Eng., Gay Gldg., Little Rock, engineer-architect services by Sanderson & Porter, 52 William St., New York, N. Y., temporary frame bldgs., Jefferson Co.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, temporary housing, facilities. Under $50,000. W. F. Freeman, High Point, N. C., archt., engr.

†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, architect-engineer services by Merry & Parsons, Augusta, temporary frame bldgs., utilities, paving, Liberty Co.

†**Illinois**—U. S. Eng., 520 Merchandise Mart, Chicago, technical services, by H. H. James, 5759 S. Princeton St., Chicago, bldgs., Cook Co.

†**Illinois**—U. S. Eng., Courthouse & Customhouse, St., Louis, Mo., architect-engineer services by Monsanto Chemical Co., 1700 S. 2 St., St. Louis, Mo., bldgs., St. Clair Co.

★†**Illinois**—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., bldgs., facilities, walks, roads, sewers, water distr. sys., electric distr. lines, etc. $20,000,000-$25,000,000.

†**Ind., Gary**—Methodist Hospital of Gary, Inc., H. B. Davis, pres. Bd. Dirs., 6 and Grant Sts., revised plans completed by Beine, Hall & Curran, 607 Bway., and bids soon 3 story, 53x185 ft. hospital addn. $320,000. FWA.

†**Kansas**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., architect-engineer services, by Horner & Wyatt, Bd. of Trade Bldg., Tanner and Mitchell, Kansas City, Mo., bldgs., Ellis Co.

★†**Kan., Topeka**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., general hospital. Over $3,000,000.

†**La., Alexandria**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., plans by C. T. Roberts, Guaranty Bank Bldg., Alexandria, permanent housing units, La. 23-1, and La. 23-2. CD 4/20—ENR 4/23.

★†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, bldg., $7,000,000.

★†**Miss., Jackson**—U. S. Eng., Postoffice & Courthouse, Vicksburg, cantonment type hospital. Over $4,000,000.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, architect-engineer services by R. J. Tipton, 1st Natl. Bank Bldg., Denver, Colo., bldgs., Hall Co.

†**Nebraska**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., architect-engineer services, by J. W. Radetinsky, Commercial Natl. Bank Bldg., Kansas City, Kan., bldgs., Dickinson Co.

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, architect-engineer services, by G. Meredith Musick, Patterson Bldg., Denver, Colo., bldgs., Scotts Bluff Co.

†**Nebraska**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., architect-engineer services, by E. T. Archer and A. W. Archer, New England Bldg., Kansas City, Mo., bldgs., Redwillow Co.

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., engineer-architect services, by firm of F. G. Frost, 144 E. 30 St., New York, N. Y.; and engineer-architect services by R. Loewy, 580 5 Ave., New York, N. Y., work in Hudson Co.

†**New Jersey**—U. S. Eng., Penn Mutual Bldg., Phila., Pa., architect-engineer services by Tuttle, Seelye, Place & Raymond, 101 Park Ave., New York, N. Y., temporary frame bldgs., Burlington Co.

★†**Ohio**—U. S. Eng., Chesapeake & Ohio Bldg., Huntington, W. Va., cantonment type hospital. Over $4,000,000.

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, engineer-architect services, by Koberling & Roads, 1400 S. Boston St., Tulsa, work in Kay Co.

†**Pennsylvania**—Fayette County Housing Auth., J. Rankin, chn., Court House, Uniontown, housing, for NHA.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., indefinitely postponed, bids to have been opened Sept. 3, housing, Project Pa 36105. CD 8/18—ENR 8/20.

†**Pennsylvania**—Pub. Housing Auth., NHA 270 Bway., New York, N. Y., indefinitely postponed bids to have been opened Sept. 8, housing, Project Pa 36264. CD 7/24—ENR 7/30.

†**Pa., Rochester**—Rochester General Hospital, Rochester, plans by J. E. and A. L. Martself, New Brighton, 2 story hospital addn. $250,000. **FWA.** CD 5/29—ENR 5/28.

†**Pa., Tarenton**—Allegheny Valley Hospital, J. W. Stevenson, supt., Carlisle St., sketches by P. C. Dowler, 803 Century Bldg., Pittsburgh, hospital and nurses home addn. Proj. Pa. 36-149. **FWA.** CD 5/22—ENR 5/28.

†**South Carolina**—U. S. Eng., 33 Customhouse, Charleston, engineer-architect services, by Lockwood Greene Engr., Inc., Spartanburg, temporary frame bldgs., Orangeburg Co.

†**Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, bldgs.

Tenn., Nashville—Bd. Educ. plans by Geo D. Waller, 3rd Natl. Bank Bldg., rebuilding Warner School. $150,000. CD 7/8—ENR 7/16.

★†**Texas**—American Republics Petroleum Co., Petroleum Bldg., Houston, constructing new unit, remodeling existing plant. $1,500,000. Federally financed.

★†**Texas** — American Republics Petroleum Co., Petroleum Bldg., Houston, altering refinery plant. $2,000,000 or more. Federally financed.

★†**Texas**—U. S. Eng., 231 W. Main St., Denison, bldgs. $3,000,000.

†**Texas**—U. S. Eng., Fort Sam Houston, bldg., $150,000; underground utilities, sanitary sewers, water, gas lines., $35,000.

★†**Texas**—U. S. Eng., Fort Sam Houston, bldg., $500,000 authorized.

★†**Texas**—U. S. Eng., Fort Sam Houston, bldgs. $3,000,000.

†**Tex., Edinburg**—Farm Securities Admin., J. W. Evans, Edinburg, constructing, equipping, dehydration plant. Over $40,000.

†**Wisconsin**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., will not construct dormitories, Wisc. 47024; permanent unit housing, Wis. 47025. Projects cancelled.

†**Pacific Northwest**—U. S. Eng., 810 3 Ave., Seattle, Wash., bldg.

★†**Alaska**—Pub. Housing Auth., NHA, Skinner Bldg., Seattle, Wash., plans by G. W. Stoddard, Orpheum Bldg., Seattle, Wash., housing, Project 50013, $400,000; housing, Project 50051, $150,000. CD 8/11—ENR 8/13.

Alta., Edmonton—Dominion Govt., Ottawa, Ont., plans by Dpt. National Defense, Ottawa, Ont., exten. base and ordnance plant, 104 Ave. $150,000.

Ont., Sault Ste Marie—Wartime Housing Ltd., 55 York St., Toronto, bids soon 150 houses. $330,000.

★**Que., Arvida**—Secretary Dpt. Munitions & Supply, Ottawa, Ont., bids soon enlarging Basic Training Centre, various temporary frame bldgs., ground development, for Dpt. National Defense, Ottawa, Ont. $1,000,000.

Que., Quebec City—Wartime Housing, Ltd., 55 York St., Toronto, Ont., bids soon community bldg. About $400,000.

★**Que., Valcartier**—Secretary Dpt. Munitions & Supply, Ottawa, Ont., bids soon enlarging Infantry Training Center, frame bldgs., ground imprvs., for Dpt. National Defense, Ottawa, Ont. $1,000,000.

BIDS ASKED

Bids Asked September 23

†**Maine**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., dormitory apts., Me. 17038. CD 7/31—ENR 8/6.

Bids Asked September 24

†**Ky., Hopkinsville**—Pub. Bldgs. Admin., North Interior Bldg., Wash., D. C., health center bldg.

Bids Asked September 28

†**Wisconsin**—Pub. Housing Auth., NHA 201 N. Wells St., Chicago, Ill., community management bldg. Foeller, Schober, Berners, Safford & John, 310 Pine St., Green Bay, archts. C. V. Kapitz, Sturgeon Bay, engr.

PUBLIC BLDGS. (Bids Asked, Cont'd.)

Bids Asked September 29

†**Ore., Pendleton**—Pub. Bldgs., Admin., North Interior Bldg., Wash., D. C., health center bldg. $30,620. CD 5/14—ENR 5/21.

Bids Asked September 30

†**Alaska, Sitka**—Federal Works Agency, Alaska Bldg., Seattle, Wash., rein.-con. hospital, Docket 50-106. $140,000. Plans deposit $10. H. B. Foss, Juneau, archt.

Bids Asked

†**New Hampshire**—U. S. Eng., Park Square Bldg., Boston, Mass., (selected bidders), temporary frame bldgs.

†**Texas**—U. S. Eng., Fort Sam Houston, bids soon bldgs., electrical distr. sys., etc. Spec. 42-455. Plans deposit $25.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, bldgs., $300,000; water lines and facilities, $15,000; sanitary sewers, $25,000; natural gas distr. lines, facilities, $25,000; outdoor overhead electrical distr. sys. for streets, roads, area lighting, $25,000. Plans deposit $50 ea. project.

†**Texas**—U. S. Eng., 231 W. Main St., Denison, bldgs. $150,000 or more. Plans deposit $50.

†**Texas**—U. S. Eng., Amarillo, civilian war housing. Plans deposit $25.

†**Pacific Northwest**—U. S. Eng., 810 3 Ave., Seattle, Wash., housing, Inv. 150; bldg. Inv. 149. CD 9/8—ENR 9/10.

LOW BIDDERS

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Sept. 4, bldgs., utilities, Spec. 219, from Brunzell Constr. Co., 13104 Greenfield Ave. West, Los Angeles, under **$500,000.** Bids 9/4.

†**California**—U. S. Eng., Wright Bldg., Sacramento, Sept. 4, bldgs., Spec. 177, from H. W. Robertson, 3004 F St., Sacramento, **$100,000-$500,000.**

★†**Illinois**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, demountable housing units, Ill. 11165, and dormitories, Ill. 11166, from Nathan Fish and N. L. Bien, Inc., 134 N. La Salle St., Chicago, **$2,345,000.** Lewis Girding, Ottawa, archt. CD 7/30—ENR 8/6.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, bldg., from Wallace C. Walker, Q & C Bldg., New Orleans.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, 2 storehouses, Inv. 43-75, from J. F. Meeks Lumber Co., Choctaw Blvd., Baton Rouge.

★†**Maine**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., Sept. 10, housing, Me. 17036, from D. A. Sullivan & Son, Inc., Main St., Northampton, Mass. **$947,000.** CD 7/30—ENR 8/6.

†**Texas**—U. S. Eng., Fort Sam Houston, addnl. bldgs., etc., Spec. 42-344 (A2-3), from J. A. Sharrock, Terrell. CD 9/10.

†**Texas**—U. S. Eng., Fort Sam Houston, Aug. 29, bldgs., Spec. 42-314, from Hale, Sessions & Ricks, Arp, **$100,000-$500,000.** CD 8/24—ENR 8/27.

†**Texas**—U. S. Eng., Fort Sam Houston, Aug. 29, bldgs., underground utilities, etc., Spec. 42-279, from Jno. Westerhoff & Sons, Inc., 418 School St., San Antonio, **$100,000-$500,000.**

CONTRACTS AWARDED

†**Alabama**—U. S. Eng., Courthouse and Customhouse, Mobile, bldgs., to Southeastern Mfg. Co., Tuscaloosa, **$100,000-$200,000.**

†**Alabama**—U. S. Eng., Bynum, civilian housing facilities, to Ralph Smallman & Co., 1109 5 Ave. S., Birmingham, **$100,000-$500,000.** Bids 8/28.

★†**Alabama**—U. S. Eng., 494 Spring St. N.W., Atlanta, Ga., expansion mfg. plant, to C. G. Kershaw Contg. Co., 2212 20 Ave. S., Birmingham, Walter Butler Co., Inc., 1300 Minn. Bldg., St. Paul, Minn., and Engineers, Ltd., 6 and Hooper Sts., San Francisco, Calif., over **$5,000,000.**

†**Alabama**—U. S. Eng., Courthouse & Customhouse, Mobile, conversion tent camp into hutments, Mobile Co., to Southeastern Mfg. Co., Tuscaloosa, **$100,000-$500,000.**

†**Arizona**—U. S. Eng., Albuquerque, N. M., bldgs., warehouses, to Jerome A. Utley, Box 8, North End Station, Detroit, Mich., **$100,000-$500,000*****electrical distr. sys., to Vyne Bros. Electric Co., Prescott, under **$50,000**; water facilities and natural gas distr. lines, to J. R. Stewart Constr. Co., Box 230, Borger, **$50,000-$100,000**; railway spurs, facilities, to Arizona Constructors, 312 Lehrs Bldg., Phoenix, **$50,000-$100,000.**

†**Arizona**—U. S. Eng., Albuquerque, N. M., temporary frame bldgs., water, sewer, gas, electric, sys., Cochise Co., to Murphy-Keith Bldg. Co., Tucson, **$100,000-$500,000.**

★†**Arkansas** — U. S. Eng., Postoffice & Courthouse, Vicksburg, Miss., temporary frame bldgs., water distr. sys., water tank tower, Drew Co., to Magnolia Constr. Co., Jackson, Miss., **$1,000,000-$5,000,000.**

†**California**—Industrial Company, shop, to MacDonald & Kahn, Inc., 200 Financial Center Bldg., San Francisco; shop and bldg., to Larsen & Larsen, 633 Bryant St., San Francisco. Federally financed.

†**California**—U. S. Eng., 741 S. Figueroa St., Los Angeles, temporary frame bldgs., Kern Co., to Albert Reingardt, Long Beach, **$100,000-$500,000.**

†**California**—U. S. Eng., 74 New Montgomery St., San Francisco, temporary frame bldgs., San Luis Obispo Co., to Doudell Constr. Co., San Jose, **$100,000-$500,000.**

†**California**—U. S. Eng., Wright Bldg., Sacramento, temporary frame bldgs., Lassen Co., to MacDonald & Kahn, Financial Center Bldg., San Francisco, **$100,000-$500,000.**

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, bldgs., utilities, No. 205, to Jensen, Martin & Jepsen, 1730 S. Hayworth St., Los Angeles, under **$500,000.** Awarded 9/3.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, civilian war housing, No. 186, to M. J. Brock & Sons, Inc., & Davies & Keusder, 1184 N. Larchmont Blvd., Los Angeles, under **$500,000.** Awarded 9/1.

†**California**—U. S. Eng., 74 New Montgomery St., Los Angeles, bldgs., to Jere Strizek, Bohemian Village, Sacramento. Awarded 9/3.

†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, temporary frame bldgs., Santa Barbara Co., to M. A. Imhoff & Associates, San Gabriel, **$100,000-$500,000.**

★†**Calif., Port Chicago**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., S.A. 1, addnl. facilities, at Naval Magazine, NOY 5314, to K. E. Parker Co., 135 S. Park St., San Francisco, **$1,321,000.** Awarded 8/26.

★†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., housing, Conn. 6123, to August Seccrio, 20 E. 1 St., Mount Vernon, N. Y., **$812,900.** Bids 6/3, awarded 9/10. CD 6/8—ENR 6/11, under LB.

†**Connecticut**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., temporary frame bldgs., Fairfield Co., to M. Spinelli & Sons Co., Inc., 38 Channey St., Boston, Mass., **$100,000-$500,000.**

†**Connecticut**—U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., temporary frame bldgs., New London Co., to M. Spinelli & Sons, Inc., 38 Channey St., Boston, Mass., **$100,000-$500,000.**

★†**Delaware**—Pub. Housing Auth., NHA, temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., housing, Project Del. 1-2, to Tobias Heller & Co., 441 Lexington Ave., New York, N. Y., **$765,000.** CD 8/4—ENR 8/6, under LB.

★†**D. C., Wash.**—Pub. Bldgs. Admin., North Interior Bldg., residence halls, West Potomac Park, to Ross Engineering Co., 3308 14 St. N.W., **$1,425,000.**

★†**Georgia**—U. S. Eng., Postoffice Bldg., Savannah, temporary frame bldgs. and paving, Chatham Co., to Ray M. Lee Co., 337 W. Peachtree St. N.W., Atlanta, **$500,000-$1,000,000.**

★†**Georgia**—U. S. Eng., Courthouse & Customhouse, Mobile, Ala., temporary frame bldgs., Chattahoochee Co., to Williams Constr. Co., Ft. Benning, **$1,000,000-$5,000,000.**

†**Georgia**—U. S. Eng., Courthouse & Postoffice, Jacksonville, Fla., temporary frame bldgs., Thomas Co., to D. D. Brewton & Son, Thomasville, **$100,000-$500,000.**

Ill., Moline—City, Hospital Bd., City Hall, general contract 3 story, brick hospital addn., to Stoehr & Palmgren, 2129 16 St.***plumbing, heating, to Lockhart Heating and Plumbing Co., 410 16 St.***electrical work, to Robbins Electrical Service, 1512 6 Ave. Total est. **$200,000.** W. H. Schulzke, 1650 5 Ave., archt.

†**Indiana**—U. S. Eng., 612 Federal Bldg., Louisville, Ky., temporary frame bldgs., Jackson Co., to Pearson Constr. Co., Benton Harbor, Mich., **$100,000-$500,000.**

†**Indiana**—U. S. Eng., 601 Federal Bldg., Louisville, Ky., addnl. temporary frame bldgs., Bartholomew Co., to Pearson Constr. Co., Benton Harbor, Mich., **$100,000-$500,000.**

★†**Indiana**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., mess hall, Allen Co., to Earl W. Snouffer, 2031 Bayer St., Fort Wayne ,under **$1,000,000.**

★†**Indiana**—U. S. Eng., 612 Federal Bldg., Louisville, Ky., temporary frame bldgs., Bartholomew Co., to Pearson Constr. Co., Benton Harbor, Mich., **$500,000-$1,000,000.**

†**Kentucky**—U. S. Eng., 612 Federal Bldg., Louisville, temporary frame bldgs., Hardin Co., to Joseph C. Kahlem, t/a Kahlem Constr. Co., Louisville, **$100,000-$500,000.**

★†**Kentucky**—U. S. Eng., 612 Federal Bldg., Louisville, temporary frame bldgs., Union Co., to Pearson Constr. Co., Benton Harbor, Mich., **$500,000-$1,000,000.**

†**Kentucky**—U. S. Eng., 612 Federal Bldg., Louisville, Ky., temporary frame bldgs., Hardin Co., to Coupe Constr. Co., 430 E. Burnett St., Louisville, **$100,000-$500,000.**

★†**Louisiana**—U. S. Eng., Courthouse & Postoffice, Vicksburg, Miss., plant expan., to Commercial Solvents Corp., 17 E. 42 St., New York, N. Y., over **$3,000,000. (Correction**—name of contractor.) CD 9/9, under CA.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, temporary frame bldgs., Rapides Co., to Barber Bros. Co. and Perrilliat-Rickey Constr. Co., Reymond Bldg., Baton Rouge, **$100,000-$500,000.**

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, temporary frame bldgs., Rapides Co., to LeVasseur, Davenport & Allen, 446 Linden St., Shreveport, **$100,000-$500,000.**

†**Md., Bethesda**—Pub. Bldgs. Admin., North Interior Bldg., Wash., D. C., laboratory, bldg., to Bahen & Wright, Inc., [illegible] Ave. N.W., Wash. D. C., $1[illegible]

†**Massachusetts**—U. S. Eng., [illegible] Bldg., Boston, temporary [illegible] 175-43-Neg. 60, to Frank[illegible] Mystic Ave., Medford. Est. [illegible] 9/3.

†**Massachusetts**—U. S. Eng., [illegible] Bldg., Boston, temporary [illegible] 175-43-Neg.-59, to Marsha[illegible] Fanuel St., Brighton. Est. [illegible] Bids 9/2.

★†**Michigan**—U. S. Eng., 700 [illegible] Bldg., Detroit, brick, steel, [illegible] Midland Co., to The Austin [illegible] Ave., Cleveland, O., **$1,000,000**—[illegible]

★†**Michigan**—U. S. Eng., 700 [illegible] Bldg., Detroit, prefabricated [illegible] pena Co., to Lewis Mfg. Co., [illegible] **$1,000,000.**

★†**Michigan**—U. S. Eng., 700 [illegible] Bldg., Detroit, boiler house, [illegible] to M. A. Clausen, 15529 [illegible] Bldg., Detroit, under **$1,000,000.**

★†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, theater of [illegible] bldgs., Chippewa Co., to J. E. [illegible] Ste. Marie, Ont., under **$1,000,000.**

★†**Mississippi**—U. S. Eng., Courthouse and Postoffice, Vicksburg, temporary frame bldgs, sewerage and water distr. sys., railroad track facilities, Grenada Co., to J. A. Jones Constr. Co., 209 W. 4 St., Charlotte, N. C., **$1,000,000-$5,000,000.**

†**Mississippi**—U. S. Eng., Courthouse and Customhouse, Mobile, Ala., temporary frame bldgs., Jones Co., to Newton & Crosby, Hattiesburg, **$100,000-$500,000.**

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, bldgs., parking areas, utilities exten., to W. E. Rubush & Co., to Jackson. Est. **$100,000-$500,000.**

★†**Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, mobilization bldgs., utilities, concrete pavement, Macomb Co., to Gilbert Douglas Co., 439 Penobscot Bldg., Detroit, under **$1,000,000.**

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, bldgs., water, sewerage sys., roads, grading, to Morrissey & Knox, 709 Jackson St., Vicksburg. Est. **$100,000-$500,000.**

†**Mississippi**—U. S. Eng., Postoffice & Courthouse, Vicksburg, temporary frame bldgs., to J. A. Jones Constr. Co., 209 W. 4 St., Charlotte, N. C. Est. **$100,000-$500,000.**

†**Mississippi**—U. S. Eng., Courthouse & Customhouse, Mobile, Ala., temporary frame bldg., Harrison Co., to J. A. Jones Constr. Co. 209 W. 4 St., Charlotte, N. C., **$100,000-$500,000.**

★†**Missouri**—U. S. Eng., Courthouse and Customhouse, St. Louis, temporary frame bldgs., St. Louis Co., to L. O. Stocker Co., Arcade Bldg., St. Louis, **$500,000-$1,000,000.**

†**Nebraska**—U. S. Eng., 1709 Jackson St., Omaha, temporary frame bldgs., utilities, Brown Co., to Anderson Constr. Co., Council Bluffs, Ia., **$100,000-$500,000.**

†**New Jersey**—Industrial Company, 1 story, brick, steel, plant and laboratory, to Mahon-Troast Const. Co., 657 Main Ave., Passaic. Federally financed. Albert Kahn Associate Architects & Engineers, Inc., 345 New Center Bldg., Detroit, Mich., archts. and engrs.

★†**New Jersey**—U. S. Eng., 6 and Walnut Sts., Phila., temporary frame bldg., Monmouth Co., to A. A. La Fountain, Inc., Hackensack, **$500,000-$1,000,000.**

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., temporary frame bldgs., Middlesex Co., to Edmund R. Stearns, Inc., 84 Glenridge Ave., Montclair, **$100,000-$500,000.**

★†**New Jersey**—U. S. Eng., Penn-Mutual Bldg., Phila., Pa., civilian housing, dormitories, mess halls, recreation bldg., to A. A. La Fountain, Inc., R. R. Ave. and Beech St., Hackensack, under **$1,000,000.**

†**New Jersey**—U. S. Eng., 120 Wall St., New York, N. Y., military housing, to Edmund Stearns, Inc., 84 Glenridge Ave., Montclair.

★†**N. J., Bayonne**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., S.A. 6, addnl. facilities at Naval Supply Depot and Naval Dry Dock, NOY 4578, to Wigton-Abbott Corp., and Mahony-Troast Constr. Co., 1225 South Ave., Plainfield, **$1,831,000.** Awarded 8/26. Additional to CD 8/25—ENR 8/27, under CA.

★†**New Mexico**—U. S. Eng., Albuquerque, temporary frame bldgs., San Miguel Co., to M. M. Sundt Constr. Co., Tucson, Ariz. **$1,000,000-$5,000,000.**

★†**New Mexico**—U. S. Eng., Albuquerque, temporary frame bldgs., Otero Co., to L. H. Hansen & Sons, Fresno, Calif., **$500,000-$1,000,000.**

★†**New Mexico**—U. S. Eng., Albuquerque, temporary frame bldgs., Curry Co., to G. Mora, 312 Sabine St., Houston, Tex. **$500,000-$1,000,000.**

★†**New York**—U. S. Eng., Chimes Bldg., Syracuse, temporary frame bldgs., Oneida Co., to Rathgeb-Walsh, Inc., 84 N. Main St., Port Chester, **$500,000-$1,000,000.**

†**New York**—U. S. Eng., Chimes Bldg., Syracuse, temporary frame bldgs., Seneca Co., to Lapenta & Gressani, 554 W. Colvin St., Syracuse. **$100,000-$500,000.**

†**Ohio**—U. S. Eng., Wright Field, Dayton, relocating temporary heating plant, Greene Co., to Lieb-Jackson Inc., 337 S. High St., Columbus, under **$50,000.**

PUBLIC BLDGS. (Contracts Awarded, Cont'd.)

†**Ohio**—U. S. Eng., Wright Field, Dayton, temporary frame bldgs., Hardin Co., to G. W. Timmons, 1293 E. Broad St., Columbus, **$100,000-$500,000.**

★†**Ohio**—U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., design and construction tank test farm bldg., Allen Co., (NX-154), to Lima Locomotive Works, Inc., Lima, less than **$1,000,000.**

†**Ohio**—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., concrete, steel bldg., Portage Lake Ave., Youngstown, to Joseph Buchelt & Sons Co., 819 Mahoning Ave., Youngstown, **$100,000-$500,000**

†**Oklahoma**—U. S. Eng., 231 W. Main St., Denison, Tex., temporary frame bldgs., Comanche Co., to W. A. Zant & J. L. Green, Lawton, **$100,000-$500,000.**

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, addnl. bldgs., to J. T. Chapman & Son, Sulphur, under **$500,000.**

★†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, to P. B. Odom, 3621 N.W. 21 St., Oklahoma City, 1 and 2 story frame bldgs., **$500,000-$1,000,000**; natural gas lines, facilities, sanitary sewer lines, water lines, **$50,000-$100,000**; construction and asphalt paving **$100,000**; roads and streets, **$100,000-$500,000**••• to Mound City Electrical Engineering Co., 957 St. Louis St., Springfield, Mo., outside overhead electrical distr. sys. and facilities, under **$50,000.**

†**Oklahoma**—U. S. Eng., 416 Wright Bldg., Tulsa, to Freilick-Middleton Constr. Co., Oklahoma City, 1 and 2 story, frame bldgs., **$100,000-$500,000**; roads, streets, grading, leveling, shaping shoulders, etc., **$50,000-$100,000**; outside overhead electrical distr. sys., under **$50,000**; sanitary sewer collecting lines, water lines facilities **$50,000-$100,000.**

★†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., design and construction manufacturing plant, Northumberland Co., to United Engineers & Constructors, Inc., 1401 Arch St., Phila., over **$5,000,000.**

†**Pennsylvania**—U. S. Eng., Standard Oil Bldg., Baltimore, Md., temporary frame bldgs., Dauphin Co., to Ritter Bros., 1511 Cameron St. N., Harrisburg. **$100,000-$500,000.**

†**South Dakota**—U. S. Eng., 1709 Jackson St., Omaha, Neb., temporary frame bldgs., Hughes Co., to Robert E. Lamb & Son, Room 1102, City Natl. Bank Bldg., Omaha, Neb., **$100,000-$500,000.**

★†**Tennessee**—Southern Acid & Sulphur Co., Columbian Mutual Tower, Memphis, plant A-E-M to Lummas Co., 420 Lexington Ave., New York, N. Y. Est. **$2,000,000.** Defense Plant Corp. will finance. CD 9/11—ENR 8/20.

†**Tennessee**—U. S. Eng., 494 Spring St., N. W., Atlanta, Ga., temporary frame bldgs., Gibson Co., to A. R. Abrams Constr. Co., 41 Exchange Pl. S.E., Atlanta, Ga. **$100,000-$500,000.**

★†**Tennessee**—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., plant, to Hegeman Harris Co. Inc., 220 E. 42 St., New York, N. Y. Est. over **$3,000,000.** Industrial Company will operate. V. E. Alden, 135 S. La Salle St., Chicago, Ill., archt.

★†**Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, temporary bldgs., water and sewerage sys., electrical distr. sys., to Foster & Creighton Co., American Natl. Bank Bldg., Nashville. Est. over **$500,000.**

★†**Tennessee**—U. S. Eng., P. O. Box 97, Memphis, addnl. bldgs., to Rock City Constr. Co., 135 4 Ave. N., Nashville; electric sub-contract, to Edenfield Electric Co., 517 5 Ave. S., Nashville. Est. **$1,000,000-$5,000,000.**

★†**Texas**—Industrial Company, plant bldgs., to Lummus Co., 425 Bway., Houston, approx. **$2,300,000.** Federally financed.

★†**Texas**—Industrial Company, plant, to M. W. Kellogg Co., Bankers Mortgage Bldg., Houston, **$3,500,000.** Defense Plant Corp. will finance.

★†**Texas**—Industrial Company, altering refinery plant, to M. W. Kellogg Co., Bankers Mortgage Bldg., Houston, approx. **$600,000.** Federally financed.

★†**Texas**—Industrial Company, plant bldgs., to Fluor Corp., Mellie Esperson Bldg., Houston, **$875,000.** Defense Plant Corp. will finance.

★†**Texas**—Industrial Company, bldgs., facilities, to E. B. Badger Corp., LaPorte Rd., Houston. **$1,500,000.** Defense Plant Corp. will finance.

★†**Texas**—Industrial Company, refinery, to E. B. Badger Co., LaPorte Rd., Houston, approx. **$1,800,000.** Defense Plant Corp. will finance. CD 1/27—ENR 1/29.

★†**Texas**—Reconstruction Finance Corp., 811 Vermont Ave., N.W., Wash., D. C., addnl. plant bldgs., to Foster-Wheeler Corp., Port Arthur. Est. **$3,000,000.** Industrial company will operate.

★†**Texas**—Reconstruction Finance Corp., 811 Vermont Ave. N.W., Wash., D. C., structural steel fabrication and erection for various plant units now under construction, to Babcock & Wilcox, Port Arthur, approx. **$1,500,000.** Awarded 8/31. Industrial Company will operate. Lummus Co., 424 Bway., Houston, engr.

†**Texas**—U. S. Eng., 416 Wright Bldg., Tulsa, Okla., temporary frame bldgs., Dallam Co., to Star Steel Erection Co., Oklahoma City, Okla., **$100,000-$500,000.**

†**Texas**—U. S. Eng., M & M Bldg., Houston, bldgs., to O. C. Baker, 2401 Nottingham St., Houston, **$100,000-$500,000.** Awarded 8/31.

†**Texas**—U. S. Eng., San Antonio, temporary frame bldg., Bexar Co., to W. G. Farrington, San Anotnio, **$100,000-$500,000.**

†**Texas**—U. S. Eng., Fort Sam Houston, bldgs, and water, sanitary sewer, gas lines, Spec. 42-319, in part to F. J. McClure, 808 Good St., Dallas, **$100,000-$500,000.** Awarded 9/8.

†**Texas**—U. S. Eng., Fort Sam Houston, bldg., Spec. 42-337, (A3-12), to Myer & Wentworth, 1760 Division Ave., San Antonio; electrical sub-contract, to Martin Wright Electric Co., Auditorium Circle, San Antonio. CD 9/1—ENR 9/3.

★†**Tex., Galveston-Port Arthur**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., naval air station, NOY 5739, to Norgaard & Shaw, Villbig Bros., Inc., and Nathan Wohlefeld, Paris & Bourbon Sts., Dallas, **$3,366,667.** Awarded 8/25.

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, housing, to Smith, Hoffman & Wright, Bd. Trade Bldg., Portland, Ore., **$100,000-$500,000.** Bids 8/18.

★†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, bldg., to Intermountain Contractors, Atlas Bldg., Salt Lake City, **$1,000,000-$5,000,000.**

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, temporary housing, to R. J. Daum, 6803 West Blvd., Englewood, Calif., under **$500,000.** Bids 8/28.

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, bldgs., to Wade Bros., 457 15 St., Ogden, **$50,000-$100,000.** Bids 8/12.

†**Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, storage bldgs., to G. A. Whitmeyer & Sons Co., Jacobsen Constr. Co., Olsen Constr. Co., Bowers Bldg. & Constr. Co., c/o G. A. Whitmeyer & Sons Co., 2459 Grant Ave., Ogden, **$50,000-$100,000.**

†**Vermont**—Pub. Housing Auth., NHA, 24 School St., Boston housing, Project Vt. 43011 to K. F. Jackson, 214 High St., Boston, Mass., **$597,746.** Bids 6/9. CD 6/12—ENR 6/18, under LB.

†**Virginia**—U. S. Eng., 415 P.O. and Court House Bldg., Norfolk, temporary frame bldgs., Nottoway Co., to Grannis, Higgins, Thompson & McDevitt Co., Charlotte, N. C., **$100,000-$500,000.**

†**Washington**—U. S. Eng., 809 3 Ave., Seattle, temporary frame bldg., Spokane Co., to Hazen & Clark, Welch Bldg., Spokane, **$100,000-$500,000.**

★†**Washington**—U. S. Eng., 809 3 Ave., Seattle, temporary frame bldgs., Spokane Co., to Sound Constr. & Engrg. Co., Nor. Li. Twr., Seattle. **$500,000-$1,000,000.**

†**Wisconsin**—Industrial Company, design and construction bldgs., to Klug & Smith Co., 111 E. Wisconsin Ave., Milwaukee. Defense Plant Corp. will finance.

†**Wisconsin**—Industrial Company, electrical contract, plant, to Staff Electric Co., 1659 W. Jackson St., Milwaukee. Federally financed. CD 7/28—ENR 7/30, under CA.

†**Wisconsin**—Industrial Company, electrical work for factory addn., for War Dpt., to Uihlein Electric Co., 514 E. Ogden Ave., Milwaukee. CD 8/11—ENR 8/13, under Industrial Bldgs., CA.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, bldg., to Associated Contractors, Eau Claire. CD 9/10.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, composition floors for bldgs., to Bennett-Colburn Co., 841 N. Wabash St., Chicago, Ill.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, general constr. and heating buildings, to Langlois Constr. Co., Berwyn, Ill. CD 8/6—ENR 8/13.

★**Que., Coleraine Station**—Dpt. Munitions & Supply, Ottawa, Ont., et al, 11 dwellings, office bldg., 2 bunkhouses, dry house, cook house in connection with proposed chrome ore treating plant, incl. sinking shaft, repairing roads, concentrator mill, to Poudrier & Boulet, Ltd., 55-18 St., Quebec City. Total est. **$1,200,000.**

Que., Rimouski—Rev. Soeurs Missionaires de L'Immaculee Conception, St. Cyrille St., Quebec City, convent addn., to J. G. Dube, de l'Eveche St., Quebec City. **$150,000.**

COMMERCIAL BUILDINGS

PROPOSED WORK

La., Bossier City—Bossier City Builder, 120 houses. $465,000.

★**La., Bossier City**—John E. Curtis, 132 dwellings, Benton Rd. and Minden Hy. $650,000.

★**La., Shreveport**—L. R. Elder, 745 Huron St., sixty 2 story frame bldgs. $746,520.

★**La., Shreveport**—J. F. Levasseur, 3516 Lakeshore Dr., 168 one story frame residences. $672,000.

La., Shreveport—Municipal Park Co., fifty, one story residences. $166,300.

★**La., Shreveport**—Robinson Slagle Lumber Co., 167 residences. $524,400.

★**La., Shreveport**—W. S. Rhea, Inc., 3116 Line Ave., 60 bungalow type houses. $260,000; fifty 1 story frame residences, 130 E. Egan St., $250,000.

N. J., Avenal—Homestead Ridge Co., 850 Broad St., Newark, plans by Wolf & Glucksman, 850 Broad St., Newark, 24 two story, bsmnt. homes. $168,000.

N. J., New Brunswick—Rutgers Estates Inc., Fulton St. and Remsen Ave., 4 unit 2 story, brick garden apts., 22 car garage play yard. $200,000. L. M. Rathman, 322 E. 149 St., New York, N. Y., archt.

★**N. J., North Arlington (br. Arlington)**—Arthur Padula, 262 N. Grove St., East Orange, plans by H. A. Kelly, 921 Bergen Ave., Jersey City, 2 story, bsmnt., garden type apartment. $700,000.

★**O., Akron**—Heslop Building & Realty Co., Tower Bldg., group 2, 4, 5 and 6 family apartments, West Market St. and Hawkins Ave. $2,000,000.

O., Columbus—Buckeye Homes, Inc., 150 E. Broad St., 59 unit, 1½ story, frame dwellings, Norwood and Dresden Aves. $200,000.

O., Lakewood—Clifton-Cove Co., c/o A. D. Fraser, Guardian Bldg., Cleveland, plans by Steffens & Fox, 1940 E. 6 St., Cleveland, 3 story, bsmnt., 46 suite, brick, stone apartment. $200,000.

★**Pennsylvania**—Lynnewood Park Corp., Delaware County, 132 unit housing, Fairmount Rd., Haverford Twp., Lynnewood. $550,000.

★**Pa., Chester—City Centre Realty Co.**, Chester, 120 single family homes, 11 St. and Eyre Dr. $600,000.

R. I., Newport—New England Telephone & Telegraph Co., 245 State St., Boston, Mass., soon lets contract 2 story, bsmnt., 125x130 ft. brick, steel L shaped exchange bldg., Central and Bull Sts. $180,000. Jenks & Ballou, 2600 Industrial Trust Bldg., Providence, archts. CD 4/15—ENR 4/23.

Tex., Marshall—Pinecrest Housing, Inc., Marshall, bids soon 111 frame dwellings, $400,000; natural gas distr. lines, facilities, $25,000 or more; sanitary sewer collection lines, facilities, $25,000 or more; water distr. lines facilities, $15,000 or more; building and paving streets, concrete curbing, etc., $25,000 or more. Fooshee & Cheek, 1901½ N. Harwood St., Dallas, archts.

Wis., St. Francis (P. O. Milwaukee)—Sisters of St. Francis of Assissi, St. Francis, plans by E. Brielmaier and Sons Co., 735 N. Water St., Milwaukee, 3 or 4 story infirmary addn. to St. Mary's Academy, remodeling bldg. at convent.

Que., Quebec City—Owner, c/o Rev. Aubert Chouinard, dir. Notre Dame Welfare Order, hostel. $50,000.

BIDS ASKED

Conn., Plainville—John Cooke Co., 75 Main St. (from selected bidders) frame houses, Linden St. $150,000. M. H. Lincoln, High Farms Rd., Hartford, archt.

CONTRACTS AWARDED

Calif., Alto—Wm. J. Pendergast & Chas. C. Clark, c/o contractor, sixty-eight 1 story frame residences, Bay View Terraces 1 and 2 on south side Alto-Tiburon Hy. at northern end Strawberry Point and on east side Hy. 101, south of Alto Jct., Marin Co., to Reese & Reese, 1262 Minnesota Ave., San Jose. **$272,030.** J. C. Oglesby, 132 B St., San Rafael, engr.

Calif., Richmond—Walker-Built Homes, Inc., 401 Spruce St., Berkeley, 85 residences, Florida Ave., owner builds; electrical work to Preston A. Jones, 17 Eldridge Court, Berkeley, and Rochester Electric Co., 2138 University Ave., Berkeley. Est. **$310,000.** CD 8/6—ENR 8/13.

Calif., Sunnyvale—Shuckl & Co., Inc., 182 S. Fairoaks Ave., office bldg. Owner builds. W. W. Wurster, 260 California St., San Francisco, archt.

Conn., Waterbury—George W. Cassidy, 111 W. Main St., Waterbury, 63 frame homes, Glenmore Tract. Owner builds. **$314,685.** Electrical work, to General Electric Works, 150 S. Elm St., Waterbury.

Maryland—Watersedge Inc., Dundalk, one hundred 1½ story, frame dwellings, Longpoint Rd., Baltimore Co., to C. T. Wells Co., Dundalk. Est. **$385,000.**

Me., South Portland (br. Portland)—Cumberland Corp., Cape Elizabeth, electrical contract 140 unit housing, Highland and Evans Sts., to T. E. Edwards, 392 Highland Ave. CD 8/13—ENR 8/20 under CA.

Neb., Fremont—Richard Court, Inc., 1 St. and 5 Ave., sixty-two 1 story frame dwellings, to Clarke Constr. Co., York. Est. **$200,000.** S. A. Solheim, 220 Sharp Bldg., Lincoln, archt.

N. J., Garwood—L. S. Constr. Co., 2 Franklin Ave., twenty-four 2 story, bsmnt., wood single residences, separate contracts. **$150,000.** H. Irving Braun, Bway, Long Branch, archt.

★**N. J., Lodi**—Grandview Court Homes, 140 Knickerbocker Rd., Dumont, one hundred fifty 2½ story, bsmnt., frame, brick veneer residences, day labor. **$1,000,000.** P. Simon, 608 Windham Rd., Teaneck, archt. CD 4/20—ENR 5/7.

N. J., Runnemede—Chas. R. Tish & Co., 442 W. Mt. Airy Ave., Phila., Pa., 42 houses. Owner builds. **$210,000.**

COMMERCIAL BLDGS. (Contracts Awarded, Cont'd.)

O., Shaker Heights (br. Cleveland)—Shaker-Lee Housing Corp., J. J. Newman, Cuyahoga Bldg., Cleveland, 28 houses. Owner builds. **$168,000.**

Pa., Germantown (Sta. Phila.)—J. Craig Clearwater, c/o Provident Trust Co., 17 and Chestnut Sts., one hundred 2 story, brick dwellings, Gilbert St., from Phil-Ellena to Sharpnack Sts. Owner builds. **$400,000.**

Pa., Phila.—P. E. Kelley, 3148 Knorr St., twenty-three 2 story, brick, stone duplex dwellings, Charles St. between Cheltenham Ave. and Vankirk St. Owner builds. Over **$150,000.**

Pa., Phila.—Nelson-Pedley, Inc., 12 S. 12 St., 448 stone, brick homes, Old Roxborough County Club. Owner builds. **$2,000,000.** Wenner & Fink, 1701 Arch St., archts.

★**R. I., Quonset Point**—Massaoit Housing, Inc., 1502 Industrial Trust Bldg., Providence, 200 frame housing units, 2 story duplex, Yorktown Sect., to Kelly Corp., Forest St. Ext., Arlington, Mass. Est. **$800,000.** R. Blaisdell, 61 Colonial Dr., Arlington, Mass., archt.

Tennessee—Industrial Company, 2½ story, 84x200 ft., brick office, cafeteria, bank vault, to J. A. Kelly Co., 1419 Church St., Nashville.

Wisconsin—Industrial Company, electrical work for office bldg., to Bentley Electric Co., 641 S. 28 St., Milwaukee. Giffels & Vallet, Marquette Bldg., Detroit, Mich., archts.

Wis., Milwaukee—J. L. Callan, 4417 W. North Ave., four 32x44 ft. apt. bldgs., N. Berkeley Blvd., owner builds; electrical work, to A. J. Borchardt, 4186 N. 19 Pl.

Wis., Milwaukee—F. Kirkpatrick, Inc., 213 W. State St., electrical work for 34 houses, N. 21, N. 30 and N. 54 Sts., to Howard L. Lewis Electric Co., 5945 N. Bay Ridge Ave. CD 5/1—ENR 5/7, under CA.

Wis., Milwaukee—H. C. Small, 3248 N. 50 St., four 2 story, 32x54 ft. apartment bldgs., Owner builds. Electrical sub-contract, to L. Kreilkamp, 6014 W. Vliet St.

Wis., West Allis—Dwyer-McMicken Co., 1412 S. 72 St., six 24x30 ft. duplex flats, S. 80 St. Owner builds. Electrical contract, to North Side Electric Co., 4053 N. 12 St., Milwaukee.

Wis., West Allis—J. Wimmer, 1500 S. 79 St., nine 24x28 ft. residences, owner builds; electrical work, to Scholbe Elec. Co., 1238 S. 34 St., Milwaukee

Wis., West Allis (br. Milwaukee)—Zinky Building & Mortgage Co., 1642 W. Fond du Lac Ave., Milwaukee, ten 24x30 ft. residences, W. Dreyer Pl. Owner builds. Electrical sub-contract, to H. Schwalter, 1240 N 47 St., Ames & Trapp, 2116 N. 3 St., archts.

Wis., West Bend—West Bend Aluminum Co., West Bend, electrical work for ten 1½ story, 28x30 ft. residences, to Burckhardt Electric Co., West Bend. R. H. Kloppenburg, 708 E. Green Tree Rd., Milwaukee, archt.

Que., Rimouski—Missionary Sisters of Immaculate Conception, 2900 Cote Ste. Catherine Rd., Montreal, convent addn., to J. G. Dube, 7 de Eveche St. Est. **$150,000.**

INDUSTRIAL BUILDINGS

PROPOSED WORK

Calif., Sanger—PLANT—Ballantine Produce Co., M and 8 Sts., rebuilding packing plant. Over $40,000.

Connecticut—PLANT—General Electric Co., C. M. Snyder, mgr., Bond St. and Boston Ave., Bridgeport, 82x180 ft. and 82x120 ft. plant units, both 2 story. $125,000.

Ind., Indiana Harbor—BLAST FURNACE—Inland Steel Co., 38 S. Dearborn St., Chicago, Ill., 400 ton steel frame blast furnace. W. Wendland, 7855 S. Stony Island Ave., Chicago, Ill., engr.

Ind., Terre Haute—POWER PLANT—Pub. Service of Indiana Traction Terminal Bldg., Indianapolis, soon lets contract 2 story, brick superstructure power plant, Unit 5. Sargent & Lundy, 140 S. Dearborn St., Chicago, Ill., engrs.

Minn., Belle Plaine—PLANT—Minnesota Valley Milk Processing Cooperative, Assn., bids soon 2 story, 76x77 ft., rein.-con. masonry construction, milk dehydrating plant, $42,000 for bldg., $120,000 equip. M. O. Buetow, 1931 University Ave., St. Paul, archt.

N. Y., Geneva—PLANT—Fast-Flame Gas Corp., Geneva, rebuilding plant, Pre-emption St. $40,000, incl. equip.

O., Cleveland—FACTORY—Eaton Mfg. Co., C. I. Ochs, pres., 755 E. 140 St., soon lets contract 1 story, 80x315 ft. and 170x180 ft. brick factory addn. $200,000. Geo. S. Rider Co., Terminal Tower, engr.

O., Columbus—PLANT—Sasco Auto Parts Co., 514 Parsons Ave., plant, High St., $50,000.

O., Euclid (br. Cleveland)—FACTORY, etc.—Linderme Tube Co., E. Linderme, pres., 1500 E. 219 St., brick factory and office addn. $40,000. A. C. Wolf, Swetland Bldg., Cleveland, engr.

O., Medina—FACTORY—Permold Co., E. G. Fahlman, in charge, brick, factory and office addn. $40,000. Christian, Schwarzenburg & Gaede, 1836 Euclid Ave., Cleveland, engrs.

O., Youngstown—PLANT—Republic Steel Corp., Republic Bldg., Cleveland, sponge iron plant. $275,000-$300,000.

Pennsylvania—PLANT—Industrial company, preparing plans, altering, imprv. mfg. plant. O. D. Conover, 1740 E. 12 St., Cleveland, O., consult. engr.

Utah—PLANT—Utah Oil Refining Co., Utah Oil Bldg., Salt Lake City, plant.

★†**Wisconsin**—FACTORY—Industrial Company soon lets contract 1 story, 100x100 ft., brick factory addn., concrete fdn. $500,000. Giffels & Vallet, Inc., Marquette Bldg., Detroit, Mich., archts. CD 9/9.

B. C., Aleza Lake—MILL—S. B. Trick Lumber Co., Ltd., Aleza Lake, saw mill, etc. $50,000.

B. C., Kimberley—PLANT—Consolidated Mining & Smelting Co. of Canada, Ltd., Trail, B. C., plant addn. $80,000.

B. C., Surrey—MILL—Western Canada Cordage Co., Ltd., 20 Water St., Vancouver, spinning mill. $190,000.

B. C., Tulameen—MILL—Tulameen Sawmills, Ltd., c/o P. J. Rabbit, lumber and saw mill.

B. C., Vancouver—PLANT—Dominion Steelweld Co., Ltd., 1565 Main St., 45x45x290 ft. plant addn., piling and concrete fdn. $60,000.

B. C., Vancouver—PLANT—Federal Iron Wks., Ltd., 7-2 Ave., 60x80x80 ft. plant addn. $40,000. CD 8/12—ENR 8/27.

B. C., Vancouver—SAW MILL—North Shore Lumber Corp. Ltd., 520 Stock Exch. Bldg., saw mill, etc. $50,000.

B. C., Vancouver—FOUNDRY, etc.—Steel Fabricators, Ltd., 510 W. Hastings St., iron foundry and machine shop. $40,000.

B. C., Vancouver—PLANT—Westland Steel Foundry Ltd., 1395 Franklin St., 45x50x80 ft. and 45x60x80 ft. frame plant addns., et al. $50,000.

B. C., West Summerland—PLANT—Summerland Evaporating Co., Ltd., c/o T. B. Young, West Summerland, evaporating, curing, processing and preserving plant.

Man., Winnipeg—LAUNDRY—Canada Packers, Ltd., Union Stockyards, Toronto, Ont., bids soon laundry bldg., etc. $42,500.

N. S., Lunenburg—MACHINE SHOP—Lunenburg Foundry Co. Ltd., Lunenburg, bids soon machine shop, boiler room and coal storage. $54,000. CD 6/9.

Ont., Acton—MILL—Mason Knitting Co., Willow St., mill, $40,000.

Ont., Chippawa—PLANT—Prack & Prack, archts., 36 S. James St., Hamilton, soon let contract 2 story, frame plant extens., concrete fdn., for Norton Co., Ltd., Chippawa. $75,000. CD 8/19—ENR 8/27.

Ont., Georgetown—PLANT—Kaplan & Sprachman, archts., 305 Dundas St. W., Toronto, bids soon 160x175 ft., brick plant, concrete fdn., for Smith & Stone, Ltd., Georgetown. East. incl. equip. $170,350, bldg. $60,000.

Ont., Goderich—PLANT—Dominion Road Machinery Ltd., c/o W. G. Chipp, accountant, plant. $50,000.

Ont., Hamilton—PLANT—Hamilton Tool Co., Ltd., c/o R. W. Treleaven, K. C., plant. $40,000.

Ont., Hamilton—PLANT—Steel Co. of Canada, Ltd., 7 Wilcox St., plans by Hutton & Souter, Pigott Bldg. 36x40 ft. brick, concrete plant addn., 25 ft. high, concrete fdn. $70,000.

Ont., Kitchener—PLANT—Dominion Rubber Co., Ltd., 149 Strange St., 48x54 ft., 60x147 ft., 30x151 ft. and 18x34 ft. wood, brick plant extens. $60,000. J. C. Klaehn, 49 E. King St., engr.

Ont., London—PLANT—Chapman & Oxley, archts., 372 Bay St., Toronto, bids soon plant bldgs., large hangar, cafeteria, fabric shop addn., reservoir, etc., for Central Aircraft, Ltd., W. Goodeve, genl. mgr., London. $375,000.

Ont., Mount Denis—PLANT—Dominion Cellulose Co., Ltd., 347 Bay St., Toronto, plant.

Ont., New Liskeard—PLANT—Canadian Splint & Lumber Corp., Ltd., Pembroke, bids soon altering plant. $139,000.

Ont., St. Thomas—PLANT—Weatherhead Mfg. Co., 121 Inkerman St., 1 story brick plant addn. $40,000.

Ont., Toronto—PLANT—Canadian Wooden Aircraft Ltd., c/o J. P. Arnott, 330 Bay St., plant. $40,000.

P. E. I., Charlottetown—PLANT—Associated Shippers, Ltd., Charlottetown, 80x150 ft. dehydrating plant.

Que., Montreal—PLANT—Canada Firebrick Co. Ltd., St. Ambroise St., plant. Site purchased.

Que., St. Hyacinthe—PLANT—Canadian U. S. Knitting Ltd., 990 Morrison St., plans by Ross & MacDonald, 1010 Ste. Catherine St., Montreal, 2 story, 32x63 ft. brick plant addn., concrete fdn. CD 11/5—ENR 11/20.

BIDS ASKED

Pa., Ridgeway—SHOP—Elliott Co., W. A. Elliott, vice pres. in charge purch., Jeanette, brick, steel, concrete Erection Shop Bldg. 2, Frack & Frack, 517 Martin Bldg., NS, Pittsburgh, archts. J. W. Ryan, Jeanette, co. genl. plant engr.

CONTRACTS AWARDED

California—PERSONNEL—[illegible] Company, electrical contract for [illegible] to T. L. Rosenberg, 372 [illegible] 9/3—ENR 9/10, under CA.

Calif., Bodega Bay—FISH[illegible] Meredith Fish Co., fishing [illegible] builds. **$45,000.**

Calif., San Bernardino—[illegible] Zoelite Co., Northbrook, Ill., [illegible] forces. **$60,000-$75,000.**

Calif., Sunnyvale—WAREH[illegible] Co., Inc., 182 S. Fairoaks A[illegible] Owner builds. **$60,000.**

Connecticut—PLANT—Indus[illegible] 94x192 ft. tool engineering [illegible] Moss & Son, Inc., 555 Grant S[illegible] **$137,400.** CD 9/1—ENR 9/3.

Mass., Malden—PLANT—Co[illegible] Co., 392 Pearl St., Malden, brick [illegible] experimental unit, Pearl St., to [illegible] Co., 43 Haverhill St., Boston. [illegible] Varney & Pike, 40 Cornhill, Bos[illegible]

Mass., Palmer—FACTORY—W[illegible] cer Steel Co., Palmer, brick exte[illegible] and 63, to Aberthaw Co., 80 Fe[illegible] ton; electrical contract, to M. B. Foster Electric Co., 368 Congress St., Boston. Est. over **$40,000.**

O., Akron—FACTORY—Firest[illegible] Rubber Co., 1278 S. Main St., electrical work for factory, to Uhl Electric Co., [illegible] St. CD 2/4—ENR 2/12 under CA.

O., Bedford—PLANT—Jack & Heintz, Inc., Bedford, electrical work for plant, to H. B. Durkee Electric Co., Euclid 61 Bldg., Cleveland. Est. **$100,000.** CD 8/6—ENR 8/13.

O., Cleveland—FACTORY etc.—Locke Machine Co., H. G. Smith, pres., 971 E. 63 St., 1 story, balcony, 29x49x50 ft. brick factory and office, to J. L. Hunting Co., Ninth-Chester Bldg. Est. **$40,000.** Awarded 9/3. H. Dercum, 4500 Euclid Ave., engr.

O., Cleveland—FACTORY—National Acme Co., 170 131 St., electrical work for factory alterations, to Harrington Electric Co., Hickox Bldg. CD 7/8—ENR 7/16 under CA.

O., Cleveland—PUMP—Republic Steel Corp., Republic Bldg., 22x40 ft. and 29x61 ft. concrete, brick pump bldg., to United Engineers & Constructors, 1401 Arch St., Phila., Pa. Est. **$40,000.**

O., Columbus—FACTORY and BOILER HOUSE—Timken Roller Bearing Co., 1025 Cleveland Ave., two 2 story factory bldgs. and boiler house, 999 Cleveland Ave., to Hadlock-Krill Co., 2169 E. 33 St., Cleveland. **$150,000.** Awarded 9/3.

Pennsylvania—PLANT—Industrial Company, plant, to Lauter Constr. Co., G and Nicetown Lane, Phila. **$40,000.**

R. I., Bristol—PLANT—U. S. Rubber Co., 500 Wood St., electrical work for plant by owner's maintenance force. CD 8/27—ENR 9/3 under CA.

Tex., San Antonio—PLANT—Universal Concrete Pipe Co., Kemper and Trinity Sts., plant, to Goforth Constr. Co., Amarillo, approx. **$40,000.** CD 9/8—ENR 9/10.

Wis., Kenosha—PLANT—Nash-Kelvinator Corp., 5626 25 Ave., office bldg., heat treating pit, Substation 1, to Hunzinger Constr. Co., Sta. K, Milwaukee, est. **$42,000.** E. W. Bernitt, c/o owner, engr.

Wis., Peshtigo—FACTORY—Unit Structures, Inc., Peshtigo, 1 story, 40x60 ft. lumber shed, 1 story, 50x140 ft. main plant, 1 story, 36x42 ft. blacksmith shop, to F. Colburn, 2110 Hall Ave., Marinette.

Wis., Stevens Point—WAREHOUSE—Weltman's Furn. & Hdwe. Co., general contract 1½ story 21x70 ft. warehouse, to J. Soik, 258 Stanley St.; electrical work, to Corda & Wysocki, Stevens Point. F. Spalenka, 432 Normal Ave., archt.

★**Alta., Calgary**—PLANT—Allied War Supply Corp., Calgary, aviation gasoline plant, own forces. Est. **$1,000,000.** CD 8/27—ENR 9/3.

Ont., Kitchener—PLANT—Dominion Rubber Co., J. Alex Martin, mgr., 149 Strange St., 50x55 ft., 60x150 ft. and 35x100 ft. plant addns., alterations. Owner builds. **$350,000.** CD 7/30—ENR 8/6.

Ont., Kitchener—PLANT—Pannill Veneer Co., 42 Edward St., 1 story, 60x145 ft., brick plant, Stewart St. Owner builds. **$45,000.** Awarded 9/1. CD 9/3.

★**Ont., Niagara Falls**—PLANT—Canadian Carborundum Co., Ltd., Stanley St., plant addn., to Robertson Constr. & Eng. Co., Ltd., 512 Clifton Ave., **$733,000.**

Ont., Windsor—PLANT—Advance Machine & Tool Co., 1160 Albert Rd., 1 story, 60x100 ft., concrete block plant, own forces. **$45,000.**

Ont., Windsor—PLANT—Bendix Eclipse of Canada, Ltd., 1473 Argyle Rd., 1 story, 117x260 ft. plant addn., 30x40 ft. boiler room, 2 story 40x100 ft. office, to Dinsmore-McIntire, Ltd., 903 Security Bldg., about **$180,000.** Awarded 9/9. CD 8/14—ENR 8/28.

Que., Beloeil—PLANT—Canadian Industries, Ltd., 1135 Beaver Hall Hill, Montreal. 1 story, 16x30x50 ft. brick plant, concrete fdn., day labor. Est. **$85,000.** CD 9/14.